

Air Leakage & Thermal Envelope Requirements

PROVIDE A COMPLETE AND CONTINUOUS AIR BARRIER THROUGHOUT THE BUILDING THERMAL ENVELOPE. THE AIR BARRIERS SHALL BE PERMITTED TO BE LOCATED ON THE INSIDE OR OUTSIDE OF THE BUILDING ENVELOPE, LOCATED WITHIN THE ASSEMBLIES COMPOSING THE ENVELOPE, OR ANY COMBINATION THEREOF.

- AIR BARRIER CONSTRUCTION. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:
1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
 2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.
 3. ALL PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION REQUIREMENTS. JOINTS AND SEALS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SHALL BE APPROPRIATE TO THE CONSTRUCTION MATERIALS BEING SEALED AND SHALL BE SECURELY INSTALLED AROUND THE PENETRATIONS SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.
 4. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. WHERE SIMILAR OBJECTS ARE INSTALLED WHICH PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.

BUILDING TEST. THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.40 CFM/FT² AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE (2.0 L/S X M² AT 75 PA) AT THE UPPER 95 PERCENT CONFIDENCE INTERVAL IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL. A REPORT THAT INCLUDES THE TESTED SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL. IF THE TESTED RATE EXCEEDS THAT DEFINED HEREIN, A VISUAL INSPECTION OF THE AIR BARRIER SHALL BE CONDUCTED AND ANY LEAKS NOTED SHALL BE SEALED TO THE EXTENT PRACTICABLE. AN ADDITIONAL REPORT IDENTIFYING THE CORRECTIVE ACTIONS TAKEN TO SEAL AIR LEAKS SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL AND ANY FURTHER REQUIREMENT TO MEET THE LEAKAGE AIR RATE WILL BE WAIVED.

1. TEST SHALL BE ACCOMPLISHED USING EITHER (1) BOTH PRESSURIZATION AND DEPRESSURIZATION OR (2) PRESSURIZATION ALONE, BUT NOT DEPRESSURIZATION ALONE. THE TEST RESULTS SHALL BE PLOTTED AGAINST THE CORRECT P FOR PRESSURIZATION IN ACCORDANCE WITH SECTION 9.4 OF ASTM E779.

2. THE TEST PRESSURE RANGE SHALL BE FROM 25 PA TO 80 PA PER SECTION 8.10 OF ASTM E779, BUT THE UPPER LIMIT SHALL NOT BE LESS THAN 50 PA, AND THE DIFFERENCE BETWEEN THE UPPER AND LOWER LIMIT SHALL NOT BE LESS THAN 25 PA.

3. IF THE PRESSURE EXPONENT N IS LESS THAN 0.45 OR GREATER THAN 0.85 PER SECTION 9.6.4 OF ASTM E779, THE TEST SHALL BE RUN WITH ADDITIONAL READINGS OVER A LONGER TIME INTERVAL.

BUILDING TEST FOR MIXED-USE BUILDINGS. WHERE A BUILDING IS THREE OR FEWER STORIES ABOVE GRADE PLANE AND CONTAINS BOTH COMMERCIAL AND RESIDENTIAL USES, THE AIR BARRIER OF THE R-2 AND R-3 OCCUPANCY AREAS OF THE BUILDING IS PERMITTED TO BE SEPARATELY TESTED ACCORDING TO SECTION R402.4.1.2. ALTERNATIVELY, IT IS PERMISSIBLE TO TEST THE AIR BARRIER OF THE ENTIRE BUILDING ACCORDING TO SECTION C402.5.1.2, PROVIDED THAT THE TESTED AIR LEAKAGE RATE DOES NOT EXCEED THE RATE SPECIFIED IN SECTION C402.5.1.2.

ROOMS CONTAINING FUEL-BURNING APPLIANCES. WHERE OPEN COMBUSTION AIR DUCTS PROVIDE COMBUSTION AIR TO OPEN COMBUSTION SPACE CONDITIONING FUEL-BURNING APPLIANCES, THE APPLIANCES AND COMBUSTION AIR OPENINGS SHALL BE LOCATED OUTSIDE OF THE BUILDING THERMAL ENVELOPE OR ENCLOSED IN A ROOM ISOLATED FROM INSIDE THE THERMAL ENVELOPE. SUCH ROOMS SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH THE BUILDING ENVELOPE REQUIREMENTS WHERE THE WALLS, FLOORS AND CEILINGS SHALL MEET THE MINIMUM OF THE BELOW-GRADE WALL R-VALUE REQUIREMENT. THE DOOR INTO THE ROOM SHALL BE FULLY GASKETED, AND ANY WATER LINES AND DUCTS IN THE ROOM INSULATED IN ACCORDANCE WITH SECTION C403. THE COMBUSTION AIR DUCT SHALL BE INSULATED, WHERE IT PASSES THROUGH CONDITIONED SPACE, TO A MINIMUM OF R-8.

- EXCEPTIONS:**
1. DIRECT VENT APPLIANCES WITH BOTH INTAKE AND EXHAUST PIPES INSTALLED CONTINUOUS TO THE OUTSIDE.
 2. FIREPLACES AND STOVES COMPLYING WITH SECTIONS 901 THROUGH 905 OF THE INTERNATIONAL MECHANICAL CODE, AND SECTION SECTION 2111.13 OF THE INTERNATIONAL BUILDING CODE.

DOORS AND ACCESS OPENINGS TO SHAFTS, CHUTES, STAIRWAYS, AND ELEVATOR LOBBIES, DOORS AND ACCESS OPENINGS FROM CONDITIONED SPACE TO SHAFTS, CHUTES, STAIRWAYS AND ELEVATOR LOBBIES SHALL BE GASKETED, WEATHER-STRIPPED OR SEALED.

- EXCEPTIONS:**
1. DOOR OPENINGS REQUIRED TO COMPLY WITH SECTION 715 OR 715.4 OF THE INTERNATIONAL BUILDING CODE.
 2. DOORS AND DOOR OPENINGS REQUIRED TO COMPLY WITH UL 1784 BY THE INTERNATIONAL BUILDING CODE.

AIR INTAKES, EXHAUST OPENINGS, STAIRWAYS AND SHAFTS. STAIRWAY ENCLOSURES, ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE PROVIDED WITH DAMPERS IN ACCORDANCE WITH SECTION C403.2.4.3.

LOADING DOCK WEATHER-SEALS. WHERE THEY OCCUR, CARGO DOORS AND LOADING DOCK DOORS SHALL BE EQUIPPED WITH WEATHER-SEALS TO RESTRICT INFILTRATION WHEN VEHICLES ARE PARKED IN THE DOORWAY.

- RECESSED LIGHTING.** RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE ALL OF THE FOLLOWING:
1. IC RATED.
 2. LABELED AS HAVING AN AIR LEAKAGE RATE OF NOT MORE THAN 2.0 CFM WHEN TESTED IN ACCORDANCE WITH ASTM E 283 AT A 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL.
 3. SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

406 Required Additional Efficiency Options

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
IN ACCORDANCE w/ WAC 51-11c 406, PROVIDE THE FOLLOWING TWO ADDITIONAL EFFICIENCY PACKAGE OPTIONS THROUGHOUT THE PROJECT:

- [] 1. MORE EFFICIENT HVAC PERFORMANCE IN ACCORDANCE WITH WSEC SECTION C406.2.
- [X] 2. REDUCED LIGHTING POWER IN ACCORDANCE WITH SECTION C406.3.
- [] 3. ENHANCED LIGHTING CONTROLS IN ACCORDANCE WITH SECTION C406.4.
- [] 4. ON-SITE SUPPLY OF RENEWABLE ENERGY IN ACCORDANCE WITH SECTION C406.5.
- [R] 5. PROVISION OF A DEDICATED OUTDOOR AIR SYSTEM FOR CERTAIN HVAC EQUIPMENT IN ACCORDANCE WITH SECTION C406.6. [REQUIRED IF PERMITTED AFTER JULY 01, 2016.]
- [] 6. HIGH-EFFICIENCY SERVICE WATER HEATING IN ACCORDANCE WITH SECTION C406.7.
- [] 7. ENHANCED ENVELOPE PERFORMANCE IN ACCORDANCE WITH SECTION C406.8.
- [] 8. REDUCED AIR INFILTRATION IN ACCORDANCE WITH SECTION C406.9.

TENANT SPACES. TENANT SPACES SHALL COMPLY WITH SECTION C406.2, C406.3, C406.4, C406.6 OR C406.7, WHERE APPLICABLE. WHERE AN ENTIRE BUILDING COMPLIES WITH SECTION C406.5, C406.8 OR C406.9, TENANT SPACES WITHIN THE BUILDING SHALL BE DEEMED TO COMPLY WITH THIS SECTION.

MORE EFFICIENT HVAC EQUIPMENT AND FAN PERFORMANCE. WHEN SELECTED, BUILDINGS SHALL COMPLY WITH SECTIONS C406.2.1 THROUGH C406.2.3.

C406.2.1 HVAC SYSTEM SELECTION. NO LESS THAN 90 PERCENT OF THE TOTAL HVAC CAPACITY SERVING THE BUILDING SHALL BE PROVIDED BY EQUIPMENT THAT IS LISTED IN TABLES C403.2.3(1) THROUGH C403.2.3(9) OR A COMBINATION THEREOF.

EXCEPTION: AIR-TO-WATER HEAT PUMPS OR HEAT RECOVERY CHILLERS ARE ALSO PERMITTED TO BE UTILIZED FOR OPTION C406.2.

C406.2.2 MINIMUM EQUIPMENT EFFICIENCY. EQUIPMENT SHALL EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS LISTED IN TABLES C403.2.3(1) THROUGH C403.2.3(9) BY 15 PERCENT, IN ADDITION TO THE REQUIREMENTS OF SECTION

C403. WHERE MULTIPLE PERFORMANCE REQUIREMENTS ARE PROVIDED, THE EQUIPMENT SHALL EXCEED ALL REQUIREMENTS BY 15 PERCENT.

EXCEPTION: EQUIPMENT THAT IS LARGER THAN THE MAXIMUM CAPACITY RANGE INDICATED IN TABLES C403.2.3(1) THROUGH C403.2.3(9) SHALL UTILIZE THE VALUES LISTED FOR THE LARGEST CAPACITY EQUIPMENT FOR THE ASSOCIATED EQUIPMENT TYPE SHOWN IN THE TABLE.

C406.2.3 MINIMUM FAN EFFICIENCY. STAND-ALONE SUPPLY, RETURN AND EXHAUST FANS DESIGNED FOR OPERATING WITH MOTORS OVER 750 WATTS (1 HP) SHALL HAVE AN ENERGY EFFICIENCY CLASSIFICATION OF NOT LESS THAN FEG 71 AS DEFINED IN AMCA 205. THE TOTAL EFFICIENCY OF THE FAN AT THE DESIGN POINT OF OPERATION SHALL BE WITHIN 10 PERCENTAGE POINTS OF EITHER THE MAXIMUM TOTAL EFFICIENCY OF THE FAN OR THE STATIC EFFICIENCY OF THE FAN.

REDUCED LIGHTING POWER. WHEN SELECTED, BUILDINGS SHALL COMPLY WITH SECTIONS C406.3.1 AND, WHERE APPLICABLE, C406.3.2, SEE ELECTRICAL.

REDUCED LIGHTING POWER DENSITY. THE TOTAL INTERIOR LIGHTING POWER (WATTS) OF THE BUILDING SHALL BE 75 PERCENT OR LESS OF THE LIGHTING POWER VALUES SPECIFIED IN TABLE C406.4.2(1) TIMES THE FLOOR AREA FOR THE BUILDING TYPES, OR BY USING 75 PERCENT OF THE INTERIOR LIGHTING POWER ALLOWANCE CALCULATED BY THE SPACE-BY-SPACE METHOD IN SECTION C406.4.2.

LAMP FRACTION. NOT LESS THAN 95 PERCENT OF THE INTERIOR LIGHTING POWER (WATTS) FROM LAMPS IN PERMANENTLY INSTALLED LIGHT FIXTURES IN DWELLING UNITS AND SLEEPING UNITS SHALL BE PROVIDED BY LAMPS WITH A MINIMUM EFFICACY OF 80 LUMENS PER WATT.

ENHANCED DIGITAL LIGHTING CONTROLS. WHEN SELECTED, INTERIOR LIGHTING SHALL BE LOCATED, SCHEDULED AND OPERATED IN ACCORDANCE WITH SECTION C406.2 AND NO LESS THAN 90 PERCENT OF THE TOTAL INSTALLED INTERIOR LIGHTING POWER SHALL BE CONFIGURED WITH THE FOLLOWING ENHANCED CONTROL FUNCTIONS:

1. LUMINAIRES SHALL BE CONFIGURED FOR CONTINUOUS DIMMING.
2. EACH LUMINAIRE SHALL BE INDIVIDUALLY ADDRESSED.

- EXCEPTIONS:**
1. MULTIPLE LUMINAIRES MOUNTED ON NO MORE THAN 12 LINEAR FEET OF A SINGLE LIGHTING TRACK AND ADDRESSED AS A SINGLE LUMINAIRE.
 2. MULTIPLE LINEAR LUMINAIRES THAT ARE GANGED TOGETHER TO CREATE THE APPEARANCE OF A SINGLE LONGER FIXTURE AND ADDRESSED AS A SINGLE LUMINAIRE WHERE THE TOTAL LENGTH OF THE COMBINED LUMINAIRES IS NOT MORE THAN 12 FEET.
 3. NOT MORE THAN EIGHT LUMINAIRES WITHIN A DAYLIGHT ZONE ARE PERMITTED TO BE CONTROLLED BY A SINGLE DAYLIGHT RESPONSIVE CONTROL.
 4. LUMINAIRES SHALL BE CONTROLLED BY A DIGITAL CONTROL SYSTEM CONFIGURED WITH THE FOLLOWING CAPABILITIES:
 - 4.1. SCHEDULING AND ILLUMINATION LEVELS OF INDIVIDUAL LUMINAIRES AND GROUPS OF LUMINAIRES ARE CAPABLE OF BEING RECONFIGURED THROUGH THE SYSTEM.
 - 4.2. LOAD SHEDDING.
 - 4.3. IN OPEN AND ENCLOSED OFFICES, THE ILLUMINATION LEVEL OF OVERHEAD GENERAL ILLUMINATION LUMINAIRES ARE CONFIGURED TO BE INDIVIDUALLY ADJUSTED BY OCCUPANTS.
 - 4.4. OCCUPANCY SENSORS AND DAYLIGHT RESPONSIVE CONTROLS ARE CAPABLE OF BEING RECONFIGURED THROUGH THE SYSTEM.

ON-SITE RENEWABLE ENERGY. WHEN SELECTED, BUILDINGS SHALL BE PROVIDED WITH ON-SITE RENEWABLE ENERGY SYSTEMS WITH A TOTAL SYSTEM RATING OF NOT LESS THAN 1 PERCENT OF THE TOTAL CONDITIONED FLOOR AREA OF THE BUILDING OF NOT LESS THAN THE VALUE SPECIFIED IN TABLE C406.5.

DEDICATED OUTDOOR AIR SYSTEM (DOAS) (REQUIRED FOR MOST BUILDINGS PERMITTED AFTER JULY 1, 2016). NOT LESS THAN 90% OF THE BUILDING CONDITIONED FLOOR AREA, EXCLUDING FLOOR AREA OF UNOCCUPIED SPACES THAT DO NOT REQUIRE VENTILATION PER THE INTERNATIONAL MECHANICAL CODE, SHALL BE SERVED BY DOAS INSTALLED IN ACCORDANCE WITH SECTION C403.6. THIS OPTION IS AVAILABLE TO BOTH BUILDINGS SUBJECT TO AND NOT SUBJECT TO THE PRESCRIPTIVE REQUIREMENTS OF SECTION C403.6.

REDUCED ENERGY USE IN SERVICE WATER HEATING. WHEN SELECTED, BUILDINGS SHALL COMPLY WITH SECTIONS C406.7.1 AND C406.7.2.

- C406.7.1 BUILDING TYPE. NOT LESS THAN 90 PERCENT OF THE CONDITIONED FLOOR AREA SHALL BE OF THE FOLLOWING TYPES:
1. GROUP R-1: BOARDING HOUSES, HOTELS OR MOTELS.
 2. GROUP I-2: HOSPITALS, PSYCHIATRIC HOSPITALS AND NURSING HOMES.
 3. GROUP A-2: RESTAURANTS AND BANQUET HALLS OR BUILDINGS CONTAINING FOOD PREPARATION AREAS.
 4. GROUP F: LAUNDRIES.
 5. GROUP R-2: BUILDINGS WITH RESIDENTIAL OCCUPANCIES.
 6. GROUP A-3: HEALTH CLUBS AND SPAS.
 7. BUILDINGS WITH A SERVICE HOT WATER LOAD OF 10 PERCENT OR MORE OF TOTAL BUILDING ENERGY LOADS, AS SHOWN WITH AN ENERGY ANALYSIS AS DESCRIBED IN SECTION C406.7.2.

C406.7.2 LOAD FRACTION. NOT LESS THAN 50 PERCENT OF THE ANNUAL BUILDING SERVICE HOT WATER ENERGY USE, OR NOT LESS THAN 100 PERCENT OF THE ANNUAL BUILDING SERVICE HOT WATER HEATING ENERGY USE IN BUILDINGS SUBJECT TO THE REQUIREMENTS OF SECTION C403.5.4, SHALL BE PROVIDED BY ONE OR MORE OF THE FOLLOWING:

1. SERVICE HOT WATER SYSTEM DELIVERING HEATING REQUIREMENTS USING HEAT PUMP TECHNOLOGY WITH A MINIMUM COP OF 3.0.
2. WASTE HEAT RECOVERY FROM SERVICE HOT WATER, HEAT RECOVERY CHILLERS, BUILDING EQUIPMENT, PROCESS EQUIPMENT, A COMBINED HEAT AND POWER SYSTEM, OR OTHER APPROVED SYSTEM.
3. SOLAR WATER-HEATING SYSTEMS.

ENHANCED ENVELOPE PERFORMANCE. WHEN SELECTED, THE TOTAL UA OF THE BUILDING THERMAL ENVELOPE SHALL BE 15 PERCENT LOWER THAN THE MAXIMUM ALLOWABLE UA FOR A BUILDING OF THE SAME CONFIGURATION AND PENETRATION AREA IN ACCORDANCE WITH SECTION C402.5.1.2. THE TOTAL U-VALUE OF THE BUILDING ENVELOPE SHALL BE THE SUM OF THE U-VALUES OF EACH DISTINCT ENVELOPE ASSEMBLY MULTIPLIED BY THE AREA IN SQUARE FEET OF EACH ASSEMBLY.

REDUCED AIR INFILTRATION. WHEN SELECTED, AIR INFILTRATION SHALL BE VERIFIED BY WHOLE BUILDING PRESSURIZATION TESTING CONDUCTED IN ACCORDANCE WITH ASTM E779 OR ASTM E1827 BY AN INDEPENDENT THIRD PARTY. THE MEASURED AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 CFM/FT² (2.0 L/S/M²) UNDER A PRESSURE DIFFERENTIAL OF 0.3 IN. WATER (75 PA) WITH THE CALCULATED SURFACE AREA BEING THE SUM OF THE ABOVE AND BELOW GRADE BUILDING ENVELOPE. A REPORT THAT IDENTIFIES THE TESTED SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE BUILDING OWNER.

EXCEPTION: WHERE THE CONDITIONED FLOOR AREA OF THE BUILDING IS NOT LESS THAN 250,000 FT² (25,000 M²), AIR LEAKAGE TESTING SHALL BE PERMITTED TO BE CONDUCTED ON REPRESENTATIVE ABOVE GRADE SECTIONS OF THE BUILDING PROVIDED THE CONDITIONED FLOOR AREA OF TESTED AREAS IS NO LESS THAN 25 PERCENT OF THE CONDITIONED FLOOR AREA OF THE BUILDING AND ARE TESTED IN ACCORDANCE WITH THIS SECTION.

Project Close-out General Notes

1. PREPARE AND PROVIDE THE FOLLOWING DOCUMENTS TO THE OWNER OR OWNER'S AGENT WITHIN 180-DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY:
 - a. RECORD DOCUMENTS. THE CONTRACTOR SHALL UPDATE CONSTRUCTION DOCUMENTS TO CONVEY A RECORD OF THE COMPLETED WORK. SUCH UPDATES SHALL INCLUDE MECHANICAL, ELECTRICAL AND CONTROL DRAWINGS RED-LINED, OR REDRAWN, THAT SHOW ALL CHANGES TO SIZE, TYPE AND LOCATIONS OF COMPONENTS, EQUIPMENT AND ASSEMBLIES.
 - b. OPERATING AND MAINTENANCE MANUALS. PROVIDE OPERATING AND MAINTENANCE MANUAL(S) FOR EACH MECHANICAL, ELECTRICAL AND PLUMBING COMPONENT, DEVICE, EQUIPMENT AND SYSTEM. THE MANUAL SHALL INCLUDE ALL OF THE FOLLOWING:
 - SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT.
 - MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH DEVICE, PIECE OF EQUIPMENT, AND SYSTEM REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
 - NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
 - CONTROLS SYSTEM INSPECTION SCHEDULE, MAINTENANCE AND CALIBRATION INFORMATION, WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, ON THE GRAPHIC WHERE SETTINGS MAY BE CHANGED.
 - A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
 - c. COMPLIANCE DOCUMENTATION. ALL ENERGY CODE COMPLIANCE FORMS AND CALCULATIONS SHALL BE DELIVERED IN ONE DOCUMENT TO THE BUILDING OWNER AS PART OF THE PROJECT RECORD DOCUMENTS, MANUALS, OR AS A STANDALONE DOCUMENT. THIS DOCUMENT SHALL INCLUDE THE SPECIFIC ENERGY CODE YEAR UTILIZED FOR COMPLIANCE DETERMINATION FOR EACH SYSTEM, NRC CERTIFICATES FOR THE INSTALLED WINDOWS, LIST OF TOTAL AREA FOR EACH NRC CERTIFICATE, THE INTERIOR LIGHTING POWER COMPLIANCE PATH (BUILDING AREA, SPACE-BY-SPACE) USED TO CALCULATE THE LIGHTING POWER ALLOWANCE.
2. THE CONTRACTOR SHALL COORDINATE AND/OR CAUSE THE TRAINING OF MAINTENANCE STAFF FOR EQUIPMENT INCLUDED IN OPERATING AND MAINTENANCE MANUALS. TRAINING SHALL INCLUDE, AT A MINIMUM:
 - a. REVIEW OF MANUALS AND PERMANENT CERTIFICATE.
 - b. HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND START-UP PROCEDURES.
 - c. TRAINING COMPLETION REPORT.

- [X] FOR PROJECTS UTILIZING THE PRESCRIPTIVE OR COMPONENT PERFORMANCE METHODS OF COMPLIANCE (WAC 51-11C SECTION, C401.2, ITEM 1) THE DOCUMENTATION SHALL INCLUDE:
- THE ENVELOPE INSULATION COMPLIANCE PATH (PRESCRIPTIVE OR COMPONENT PERFORMANCE)
 - ALL COMPLETED CODE COMPLIANCE FORMS, AND ALL COMPLIANCE CALCULATIONS.

- [] FOR PROJECTS UTILIZING TOTAL BUILDING PERFORMANCE METHOD OF COMPLIANCE (WAC 51-11C SECTION, C401.2, ITEM 2) THE DOCUMENTATION SHALL INCLUDE:
- A LIST OF ALL PROPOSED ENVELOPE COMPONENT TYPES, AREAS AND U-VALUES.
 - A LIST OF ALL LIGHTING AREA TYPES WITH AREAS, LIGHTING POWER ALLOWANCE, AND INSTALLED LIGHTING POWER DENSITY.
 - A LIST OF EACH HVAC SYSTEM MODELED WITH THE ASSIGNED AND PROPOSED SYSTEM TYPE.
 - ELECTRONIC COPIES OF THE BASELINE AND PROPOSED MODEL INPUT AND OUTPUT FILE. THE INPUT FILES SHALL BE IN A FORMAT SUITABLE FOR RERUNNING THE MODEL AND SHALL NOT CONSIST SOLELY OF FORMATTED REPORTS OF THE INPUTS

Energy Efficiency Inspections General Notes

1. INSPECTIONS, INCLUDING INSPECTIONS COMMONLY REFERRED TO AS SPECIAL INSPECTIONS, ARE REQUIRED FOR CERTAIN WORK AND INSTALLATIONS FOR THE PROJECT. STRUCTURAL DRAWINGS MAY LIST ADDITIONAL REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL COMPONENTS, REFER TO STRUCTURAL DRAWINGS.
2. UNLESS OTHERWISE NOTED, OR EXEMPTED BY STATUTE, WORK SHALL BE INSPECTED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE GOVERNING ENERGY EFFICIENCY CODE(S) OF THE STATE IN WHICH THE PROJECT IS CONSTRUCTED AND OTHER APPLICABLE CODES AND AMENDMENTS ENFORCED BY AUTHORITY HAVING JURISDICTION (AHJ).
3. VERIFY WITH AHJ WHICH INSPECTIONS ARE PERFORMED BY AHJ AND WHICH INSPECTIONS NEED TO BE PERFORMED BY OWNER'S AGENT. ASSIST OWNER IN ENGAGING A QUALIFIED AGENT IF AHJ DOES NOT PERFORM ALL REQUIRED INSPECTIONS. OWNER WILL PAY FOR INSPECTIONS NOT PERFORMED BY AHJ.
4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH APPLICABLE ADMINISTRATION, INSPECTION AND CERTIFICATION REQUIREMENTS ENFORCED BY AHJ WHERE THE PROJECT IS CONSTRUCTED AND COORDINATE WITH AHJ AND/OR OWNER'S AGENT TO: SCHEDULE INSPECTIONS IN A TIMELY MANNER, PROVIDE ACCESS TO WORK, PROVIDE MEANS OF INSPECTION(S) OR REINSPECTION IF NECESSARY, NOTIFY AND SUBMIT SPECIAL INSPECTION REPORTS AND SIMILAR TASKS TO COMPLY WITH REQUIREMENTS.
5. COSTS OF REINSPECTION REQUIRED BECAUSE ORIGINAL WORK WAS NOT APPROVED ARE THE RESPONSIBILITY OF CONTRACTOR.
6. THE STATE CODE REFERENCES BELOW ARE PROVIDED AS A CONVENIENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL APPLICABLE INSPECTION CRITERIA WITH AHJ.

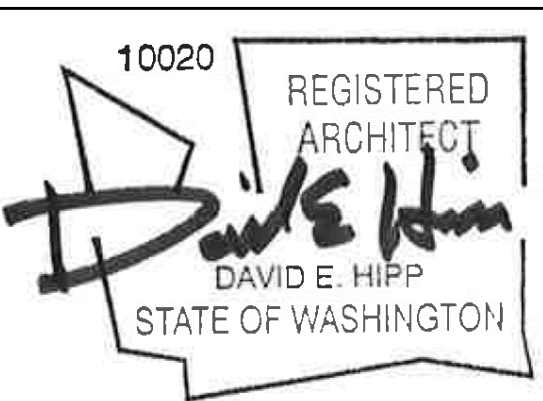
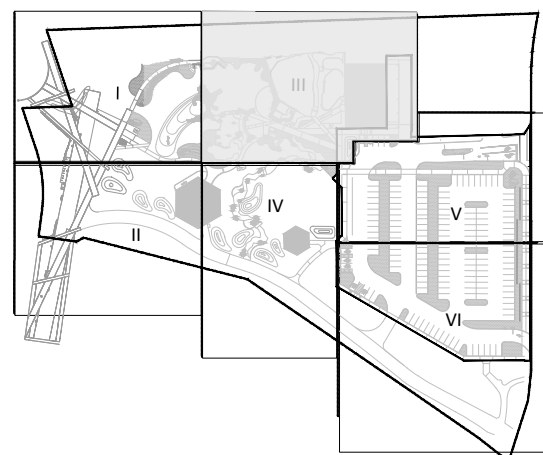
STATE / JURISDICTION	STATE CODE REFERENCE	CODE SECTION
WASHINGTON	WASHINGTON ADMINISTRATIVE CODE CHAPTER 51-11	C104
WASHINGTON: CITY OF SEATTLE	SEATTLE ENERGY CODE	C104
OREGON	OREGON ENERGY EFFICIENCY SPECIALTY CODE	
CALIFORNIA	CALIFORNIA ENERGY CODE / TITLE-24	
ALL OTHER STATES, U.O.N.	INTERNATIONAL ENERGY CONSERVATION CODE	C104

Systems Commissioning & Testing Notes

EXCEPT WHERE SPECIFICALLY EXEMPTED BY PROVISIONS OF THE WSEC, THE FOLLOWING SHALL BE PROVIDED.

1. ASSIST OWNER IN ENGAGING AN INDEPENDENT CERTIFIED COMMISSIONING AUTHORITY (CxA) PURSUANT TO WAC 51-11C C408 (WASHINGTON STATE) OR IEEC C408 (ALL OTHER STATES, U.O.N.). A COMMISSIONING PLAN SHALL BE DEVELOPED BY THE PROJECT'S CxA AND OUTLINE THE ORGANIZATION, SCHEDULE, ALLOCATION OF RESOURCES, AND DOCUMENTATION REQUIREMENTS OF THE COMMISSIONING PROCESS.
2. THE CxA SHALL PREPARE THE THE FOLLOWING DOCUMENTS AND TESTING CRITERIA AS APPLICABLE. SUCH DOCUMENTS SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS.
 - A. A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
 - B. ROLES AND RESPONSIBILITIES OF THE COMMISSIONING TEAM, INCLUDING STATEMENT OF QUALIFICATIONS OF THE COMMISSIONING PROFESSIONAL.
 - C. A SCHEDULE OF ACTIVITIES INCLUDING SYSTEMS TESTING AND BALANCING, FUNCTIONAL PERFORMANCE TESTING, AND VERIFICATION OF THE BUILDING DOCUMENTATION REQUIREMENTS
 - D. WHERE THE PROJECT COMMISSIONING AUTHORITY IS AN EMPLOYEE OF ONE OF THE REGISTERED DESIGN PROFESSIONALS OF RECORD OR AN EMPLOYEE OR SUBCONTRACTOR OF THE PROJECT CONTRACTOR, AN IN-HOUSE COMMISSIONING DISCLOSURE AND CONFLICT MANAGEMENT PLAN SHALL BE SUBMITTED WITH THE COMMISSIONING PLAN. THIS PLAN SHALL DISCLOSE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACTUAL RELATIONSHIP WITH OTHER TEAM MEMBERS AND PROVIDE A CONFLICT MANAGEMENT PLAN DEMONSTRATING THAT THE CERTIFIED COMMISSIONING PROFESSIONAL IS FREE TO IDENTIFY ANY ISSUES DISCOVERED AND REPORT DIRECTLY TO THE OWNER.
 - E. A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
 - F. FUNCTIONS TO BE TESTED.
 - G. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED.
 - H. MEASURABLE CRITERIA FOR PERFORMANCE.
3. COST OF REPEAT COMMISSIONING TASKS REQUIRED BECAUSE ORIGINAL WORK DID NOT COMPLY OR WAS NOT OPERATING PROPERLY AND AS INTENDED ARE RESPONSIBILITY OF CONTRACTOR.
4. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405 BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

GA .4

FILE NAME:

BY	REVISIONS			DATE	

B	W	A	BERNARDO	WILLS
			ARCHITECTS	PC

LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION	1734.64 @ CAP #CP9	HORIZONTAL
CBM NO.	43N, 44W NAVD 88	VERTICAL
CITY DATUM		SCALE

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
3.15.18	DRAWN - CLK
3.15.18	DESIGNED - DH
	CHECKED
	APPROVED



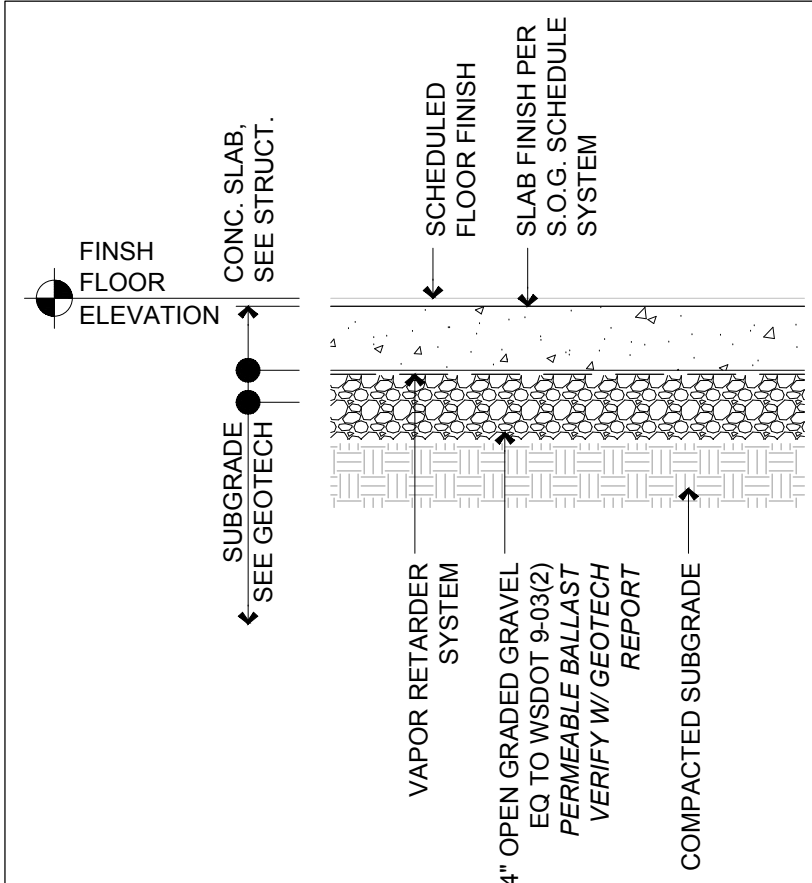
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	WSEC Code Compliance
	7.3.2019
	DATE: Jun 25, 2019 - 2:31pm by: ckilmer

Slab-On-Grade System

GRAPHIC LEGEND



SLAB-ON-GRADE

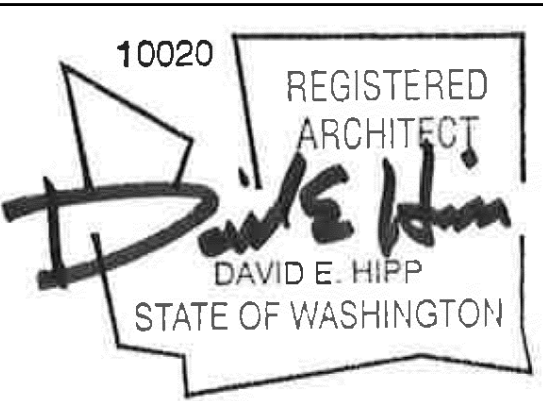
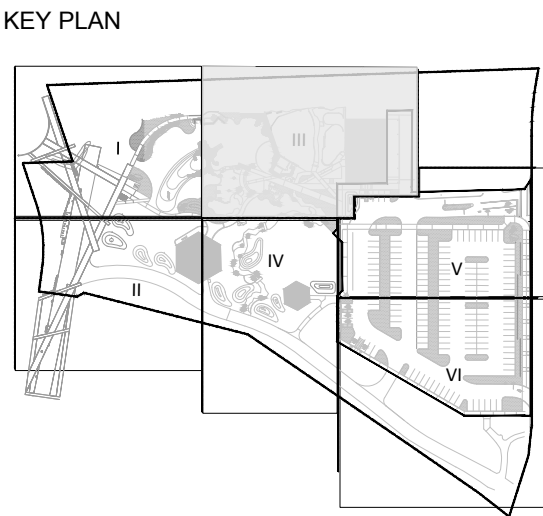
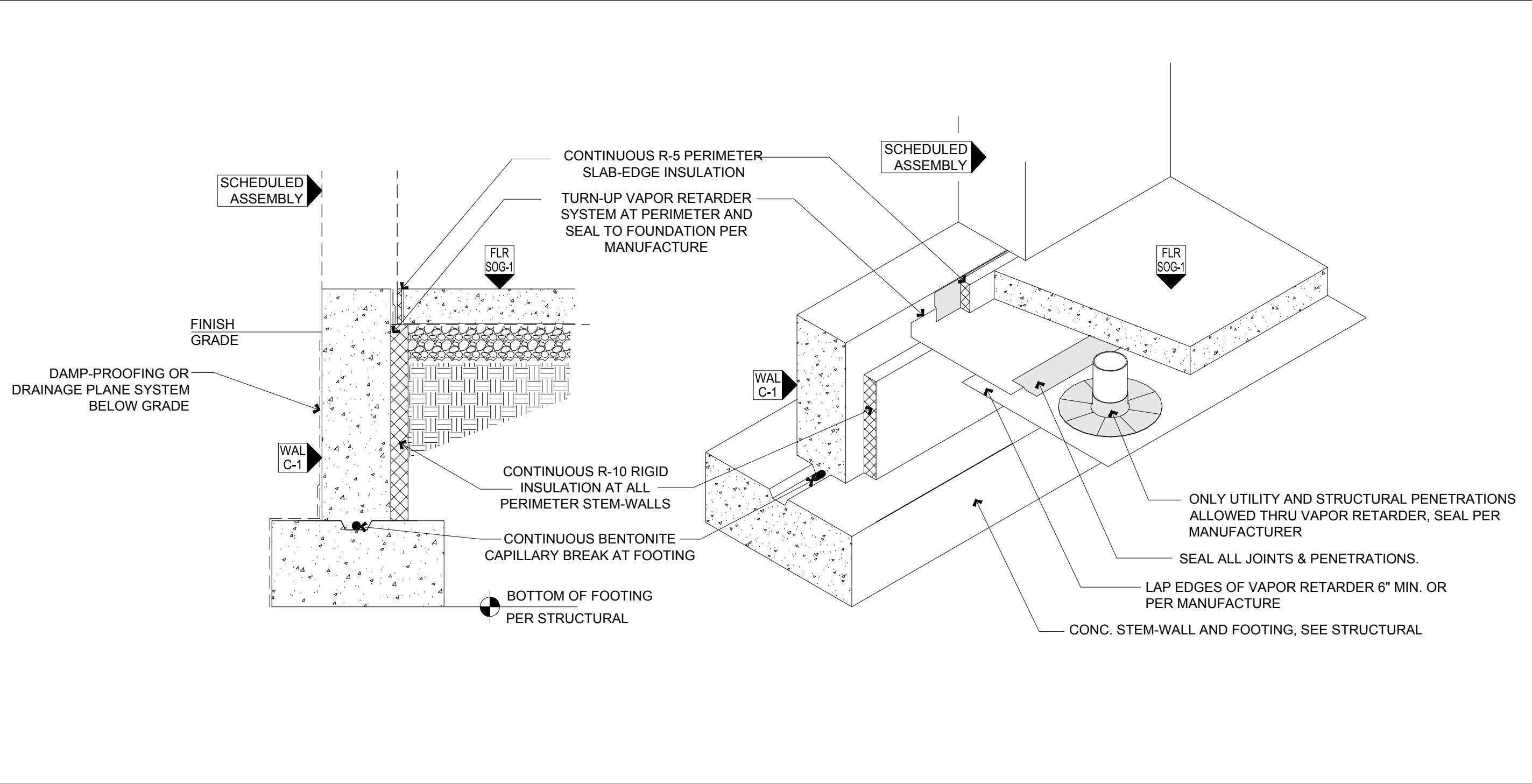
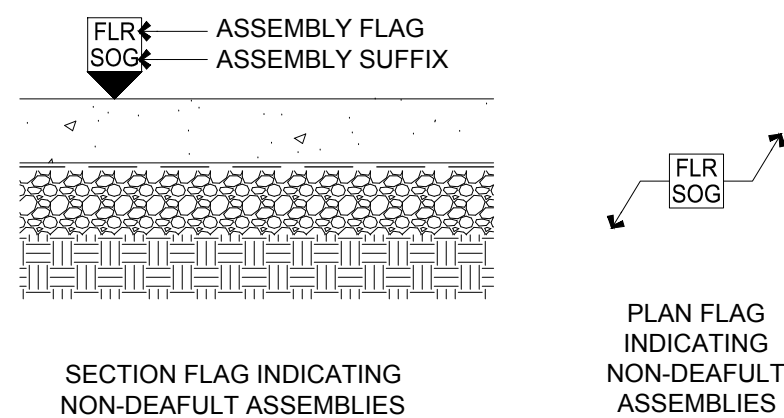
- NOTES:
1. VERIFY SUB-GRADE REQUIREMENTS WITH PROJECT GEO-TECHNICAL REPORTS/RECOMMENDATIONS.
 2. VERIFY SLAB REQUIREMENTS WITH PROJECT GEO-TECHNICAL REPORTS/RECOMMENDATIONS. COORDINATE ADDITIONAL REQUIREMENTS w/ STRUCTURAL DRAWINGS.
 3. ALL UNDER-SLAB MATERIALS AND PREPARATION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF *ACI 302.1 Guide for Concrete Floor and Slab Construction* AS AMENDED AND PROJECT GEO-TECHNICAL REPORTS/RECOMMENDATIONS AND STRUCTURAL REQUIREMENTS O.N.U.
 4. ALL FLOOR AND SLAB CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF *ACI 302.1 Guide for Concrete Floor and Slab Construction* AS AMENDED, O.N.U.

FLAG LEGEND

SLAB-ON-GRDE SCHEDULED DEFAULTS

SLAB-ON-GRADE SCHEDULE			
SUFFIX	DEFAULT LOCATION, U.N.O.	FINISH	NOTES
SOG-1	INTERIOR FLOOR SLABS	STANDARD STEEL TROWEL	FIBER REIN-FORCED U.O.N.
SOG-2	EXTERIOR WALKS, LANDINGS	STANDARD BROOM	OMIT VAPOR RE-TARDER & SAND
SOG-3	AS NOTED ON PLAN	SPECIAL COLOR AND/OR TEXTURE	OMIT VAPOR RE-TARDER & SAND
SOG-4	-	-	-
SOG-5	-	-	-
SOG-6	-	-	-

FLAG DIAGRAM



Exterior Wall Systems

GRAPHIC LEGEND

FLAG LEGEND

10" CMU

PLAN VIEW

8" CMU

PLAN VIEW

8" CONCRETE

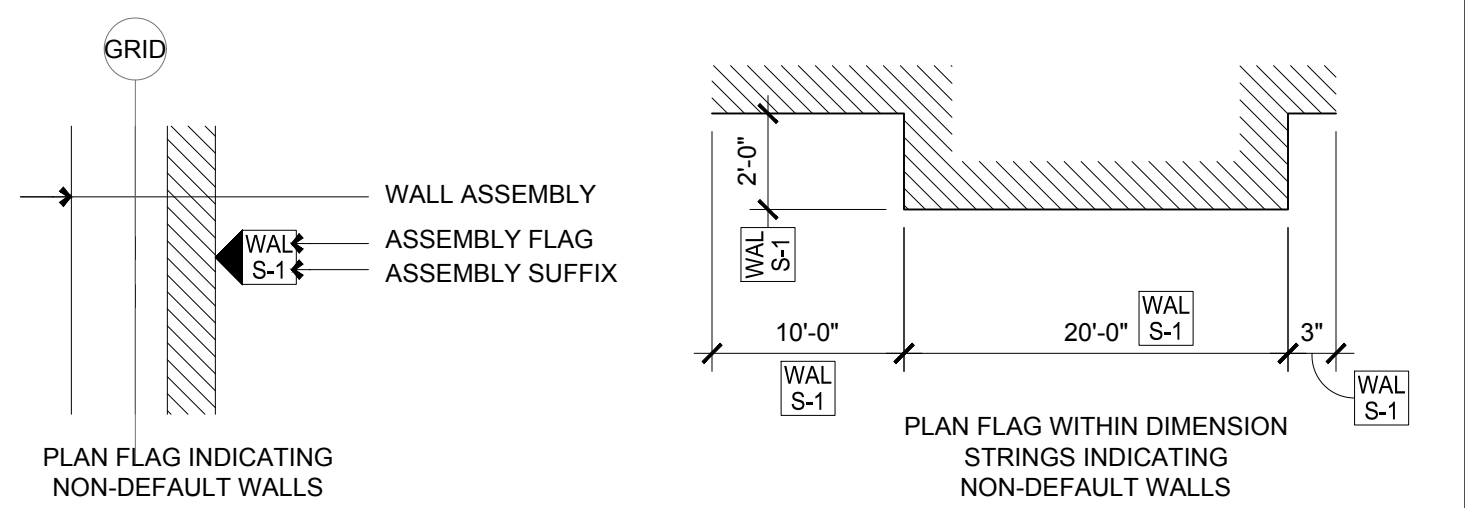
PLAN VIEW

DEFAULT M-1			
STUD SIZE SUFFIX/WIDTH CHART			
SUFFIX	VEENER DETAIL	FURRING SYSTEM	DETAIL
M-1	NONE, PAINT/SEAL	E3	1/A0.2
M-2	NONE, PAINT/SEAL	NO FURRING	

M-3			
STUD SIZE SUFFIX/WIDTH CHART			
SUFFIX	VEENER DETAIL	FURRING SYSTEM	DETAIL
M-3	NONE, PAINT/SEAL	E3	2/A0.2
M-4	MASONRY VENEER	NO FURRING	

C-1			
FURRING SUFFIX			
SUFFIX	VEENER DETAIL	FURRING SYSTEM	DETAIL
C-1	NONE, PAINT/SEAL	E3	3/A0.2

FLAG DIAGRAM



NOTES

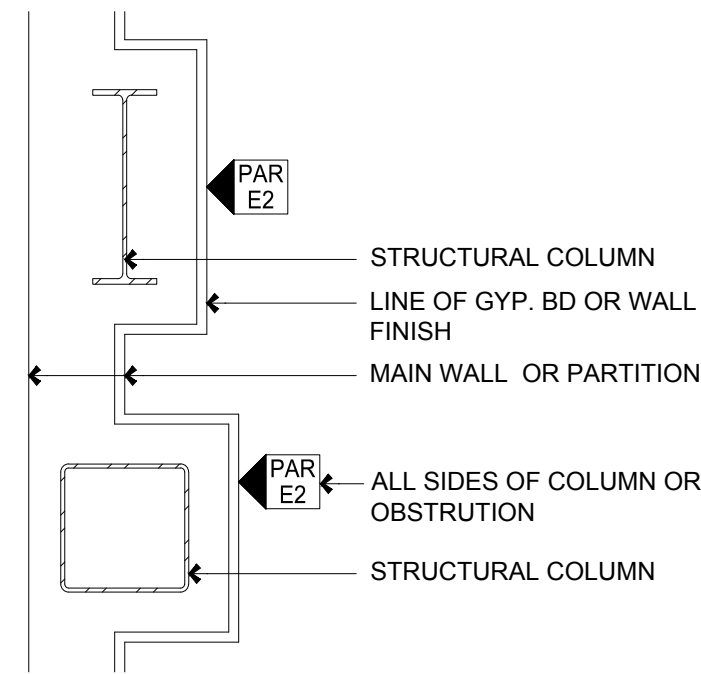
- STEM WALL TO ALIGN WITH FACE OF VENEER FINISH ABOVE.
- WHERE WALLS ARE NOT FLAGGED W/ 'FLAG SYMBOLS', REFER TO GRAPHICAL LEGEND FOR DEFAULT PARTITION TYPES.
- REFER TO 'TYPICAL COLUMN FURRING' DIAGRAM WHERE STRUCTURAL COLUMNS OR OBSTACLES PROTRUDE FROM THE INTERIOR SIDE OF THE WALL SURFACE.
- DELETE BRICK LEDGE AND RAISE FLASHING TO SLAB LEVEL WHERE SIDE WALKS ARE ADJACENT TO STEM WALL.
- PLACE SEALANT TAPE OR EQUIVALENT BETWEEN WALL TIES AND WEATHER BARRIER, PER MANUFACTURERS REQUIREMENTS, WHERE FASTENERS PENETRATE THE WEATHER BARRIER.

INTERIOR SHEATHING SCHEDULE

CONTRACTOR TO COORDINATE LOCATIONS OF SCHEDULED SHEATHING WITH FLOOR PLAN, ROOM DESIGNATION AND WALL FINISH CONDITIONS. FIRE RATINGS ARE TO BE MAINTAINED WHERE INDIATED.

5/8" TYPE 'X' GYP. BD.	ALL PARTITIONS U.N.O. OR SHOWN GRAPHICALLY OTHERWISE
5/8", TYPE 'X', ABUSE RESISTANT GYP. BD.	AS IDENTIFIED ON PLANS
5/8", TYPE 'X', WATER RESISTANT GYP. BD.	PROVIDE BEHIND ALL 'WET WALL' PARTITIONS WITH PLUMBING FIXTURES (TOILETS, URINALS, LAVATORIES, ETC) TO A HEIGHT OF 4'-0" A.F.F. AND 4'-0" EACH SIDE OF FIXTURE.
5/8", CEMENT BACKER BOARD (USG DUROCK TYPE DCB OR EQUAL) W/ MOISTURE BARRIER MEMBRANE SYSTEM	USE AT PARTITIONS EXPOSED DIRECTLY TO RUNNING WATER OR SCHEDULED TO RECEIVE CERAMIC TILE.
5/8", TYPE 'X', MOISTURE RESISTANT GYP. BD.	USE AT ALL TOILET ROOMS AND JANITOR CLOSETS IN AREAS WHERE WATER RESISTANT OR CONCRETE CEMENT BOARD IS NOT USED.
5/8", TYPE 'X', GYP. BD. AND 1/2", FIRE TREATED, PLYWOOD SHEATHING	MECHANICAL ROOM PARTITIONS TO RECEIVE ELECTRICAL OR TELECOMMUNICATIONS EQUIPMENT.

TYP. COLUMN FURRING



PROJECT CONSTRUCTION TYPE LEGEND

MATERIAL DESIGNATION	DESCRIPTION OF CONSTRUCTION
W	WOOD CONSTRUCTION
S	STEEL CONSTRUCTION
M	MASONRY CONSTRUCTION
C	CONCRETE CONSTRUCTION
CT	CONCRETE TILT UP CONSTRUCTION

NOTES

- NOTE

1 10" CMU WALL BASE

SCALE: 1'-1/2" = 1'-0"

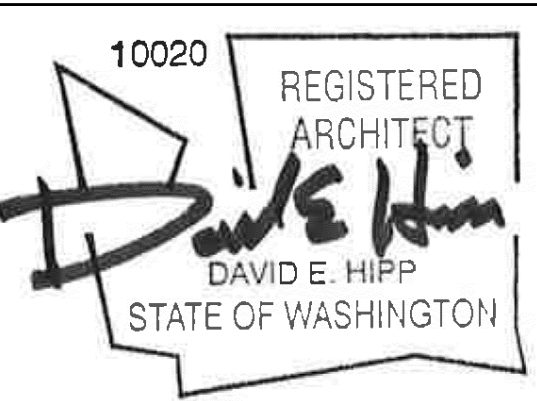
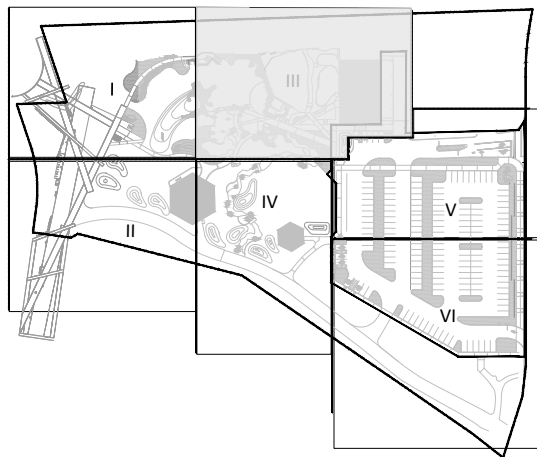
2 8" CMU WALL BASE

SCALE: 1'-1/2" = 1'-0"

3 8" CONCRETE WALL BASE

SCALE: 1'-1/2" = 1'-0"

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 0.2

FILE NAME:

DATE: Jun 25, 2019 - 2:28pm by: ckilmer

BY	REVISIONS	DATE

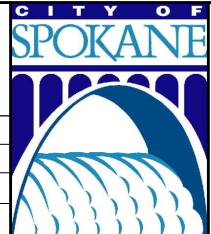
B W A

BERNARDO | WILLS

ARCHITECTS PC

LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'
ELEVATION	1734.64' @ CAP #CP9
CBM NO.	43N, 44W NAVD 88
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
3.15.19	DRAWN - CLK
3.15.19	DESIGNED - DH
	CHECKED
	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: EXTERIOR WALL
ASSEMBLY, NOTES AND SCHEDULES
7.3.2019

Partition Schedule - Interior

STRUCT.

CLG

FLR

SEALANT

5/8" GYP. BD. EA. SIDE OR SCHEDULED SHEATHING

7/4"

6" MTL STUDS

SEALANT

TYPICAL A6

NON-RATED
3" MIN. SOUND BATT INSULATION

STRUCT.

CLG

FLR

SEALANT

2 LAYERS 5/8" GYP. BD. EA. SIDE OR SCHEDULED SHEATHING

8 1/2"

6" MTL STUDS

SEALANT

2-HR RATED B6

2-HR RATED
3" MIN. SOUND BATT INSULATION

STRUCT.

CLG

FLR

SEALANT

5/8" GYP. BD. ONE SIDE OR SCHEDULED SHEATHING

4 1/4"

3 5/8" MTL STUDS

SEALANT

FURRING E3

NON-RATED
R-13 BATT INSULATION

STRUCTURAL COLUMN

LINE OF GYP. BD OR WALL FINISH

MAIN WALL OR PARTITION

ALL SIDES OF COLUMN OR OBSTRUCTION

STRUCTURAL COLUMN

PAR E2

PAR A6

PAR E2

PARTITION

PARTITION FLAG

PARTITION SUFFIX

TYP. COLUMN FURRING

STRUCTURAL COLUMN

LINE OF GYP. BD OR WALL FINISH

MAIN WALL OR PARTITION

ALL SIDES OF COLUMN OR OBSTRUCTION

STRUCTURAL COLUMN

1-HOUR FIRE RESTIVE CONSTRUCTION

2-HOUR FIRE RESTIVE CONSTRUCTION

3-HOUR FIRE RESTIVE CONSTRUCTION

4-HOUR FIRE RESTIVE CONSTRUCTION

CONSTRUCTION TYPE

1-HOUR RATED

2-HOUR RATED

3-HOUR RATED

4-HOUR RATED

W

S

M

C

-

-

-

UL#U305

UL#U419

-

UL#U905

UL#U904

UL#U901

-

NOTES

1. NOTES.

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

A

B

E

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

STUD SIZE SUFFIX

SUFFIX

STUD SIZE

TOTAL WIDTH

A1

1 5/8"

2 7/8"

B1

1 5/8"

4 1/8"

E1

1 5/8"

2 1/4"

A2

2 1/2"

3 3/4"

B2

2 1/2"

5"

E2

2 1/2"

3 1/8"

A3

3 5/8"

4 7/8"

B3

3 5/8"

6 1/8"

E3

DEFAULT PARTITION

A4

4"

5 1/4"

B4

4"

6 1/2"

E4

4"

4 5/8"

A6

DEFAULT PARTITION

B6

DEFAULT PARTITION

E6

6"

6 5/8"

A8

8"

9 1/4"

B8

8"

10 1/2"

PARTITION SHEATHING SCHEDULE

CONTRACTOR TO COORDINATE LOCATIONS OF SCHEDULED SHEATHING WITH FLOOR PLAN, ROOM DESIGNATION AND WALL FINISH CONDITIONS. FIRE RATINGS ARE TO BE MAINTAINED WHERE INDIATED.

5/8" TYPE 'X' GYP. BD.

ALL PARTITIONS U.N.O. OR SHOWN GRAPHICALLY OTHERWISE

5/8". TYPE 'X', ABUSE RESISTANT GYP. BD.

AS IDENTIFIED ON PLANS

5/8". TYPE 'X', WATER RESISTANT GYP. BD.

PROVIDE BEHIND ALL 'WET WALL' PARTITIONS WITH PLUMBING FIXTURES (TOILETS, URINALS, LAVATORIES, ETC) TO A HEIGHT OF 4'-0" A.F.F. AND 4'-0" EACH SIDE OF FIXTURE.

5/8", CEMENT BACKER BOARD (USG DUROCK TYPE DCB OR EQUAL) W/ MOISTURE BARRIER MEMBRANE SYSTEM

USE AT PARTITIONS EXPOSED DIRECTLY TO RUNNING WATER OR SCHEDULED TO RECEIVE CERAMIC TILE.

5/8". TYPE 'X', MOISTURE RESISTANT GYP. BD.

USE AT ALL TOILET ROOMS AND JANITOR CLOSETS IN AREAS WHERE WATER RESISTANT OR CONCRETE CEMENT BOARD IS NOT USED.

5/8". TYPE 'X', GYP. BD. AND 1/2", FIRE TREATED, PLYWOOD SHEATHING

MECHANICAL ROOM PARTITIONS TO RECEIVE ELECTRICAL OR TELECOMMUNICATIONS EQUIPMENT.

PARTITION NOTES

1. WHERE PARTITIONS ARE NOT FLAGGED WITH 'FLAG SYMBOLS', REFER TO GRAPHICAL LEGEND FOR DEFAULT PARTITION TYPES

2. FLAGGED PARTITION TYPES ARE ADDITIONAL PARTITION TYPE VARIATIONS AS SHOWN ON THIS SHEET.

3. PROVIDE DEFLECTION TRACKS AND/OR CLIPS FOR ALL PARTITIONS ABUTTING STRUCTURE ABOVE.

4. EXTEND SOUND ATTENUATION INSULATION THE FULL WIDTH AND HEIGHT OF WALL.

5. MAINTAIN THE FIRE PROTECTION RATINGS FOR ALL OPENINGS IN RATED PARTITIONS.

6. REFER TO GYPSUM BOARD SCHEDULE ON THIS SHEET AND SUBSTITUTE MATERIALS WHERE NOTED.

7. PROVIDE 20 GAUGE DOUBLE STUDS @ EACH DOOR & WINDOW JAMB.

8. METAL STUD FRAMING: 16" O.C. UNLESS NOTED OTHERWISE. STUD GAGE TO BE DETERMINED BY MANUFACTURES LOAD TABLES AND STRUCTURAL ENGINEERING.

9. BLOCKING: PROVIDE 16 GAUGE SHEET METAL STRAP BLOCKING OR FIRE TREATED WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS UNLESS NOTED OTHERWISE.

10. WHERE FURRING IS INSTALLED AT EXTERIOR WALLS INSTALL CLASS-I VAPOUR RETARDER SYSTEM BEHIND GYP. BD. SEAL ALL EDGES AND PENETRATIONS.

11. REFER TO 'TYPICAL COLUMN FURRING' DIAGRAM WHERE STRUCTURAL COLUMNS OR OBSTACLES PROTRUDE FROM THE WALL SURFACE.

PROJECT CONSTRUCTION TYPE LEGEND

MATERIAL DESIGNATION

DESCRIPTION OF CONSTRUCTION

W

S

M

C

WOOD CONSTRUCTION

STEEL CONSTRUCTION

MASONRY CONSTRUCTION

CONCRETE CONSTRUCTION

NOTES

1. NOTE

BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84)

NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'

ELEVATION 1734.64' @ CAP #CP9

CBM NO. 43N, 44W

NAVED 88

CITY DATUM

HORIZONTAL

VERTICAL

SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS

CCS - ADOPTED 2/95

3.15.19 DRAWN CLK

3.15.19 DESIGNED DH

CHECKED

APPROVED

CITY OF SPOKANE

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

PROJECT TITLE:

RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE:

INTERIOR PARTITION (STEEL)
ASSEMBLY, NOTES AND SCHEDULES
7.3.2019

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT:

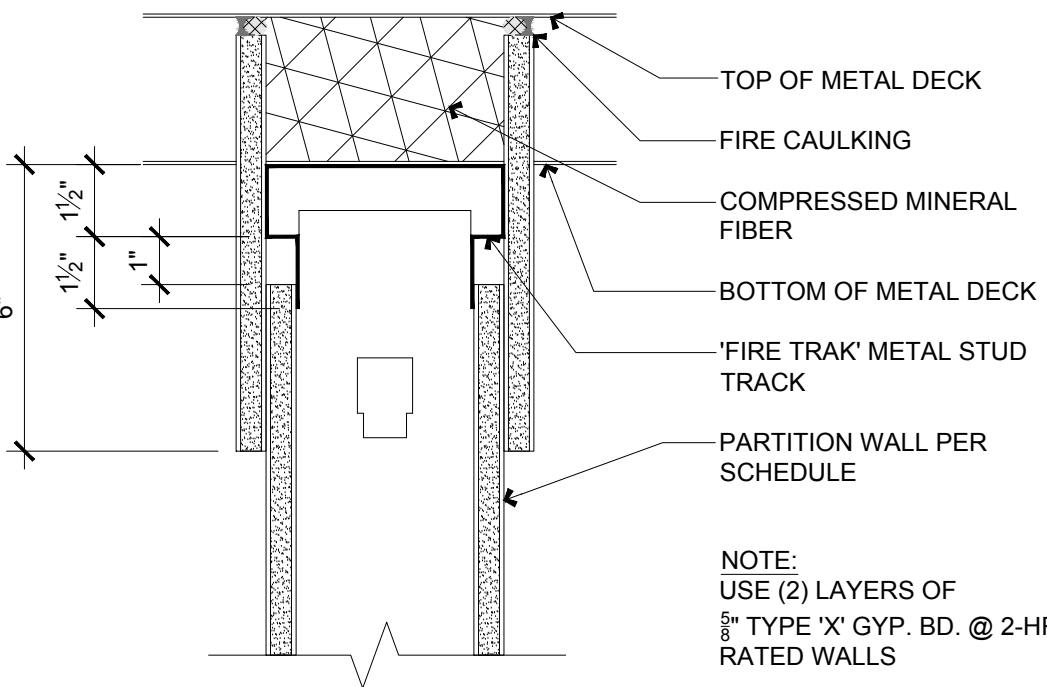
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CITY PURCHASING NUMBER

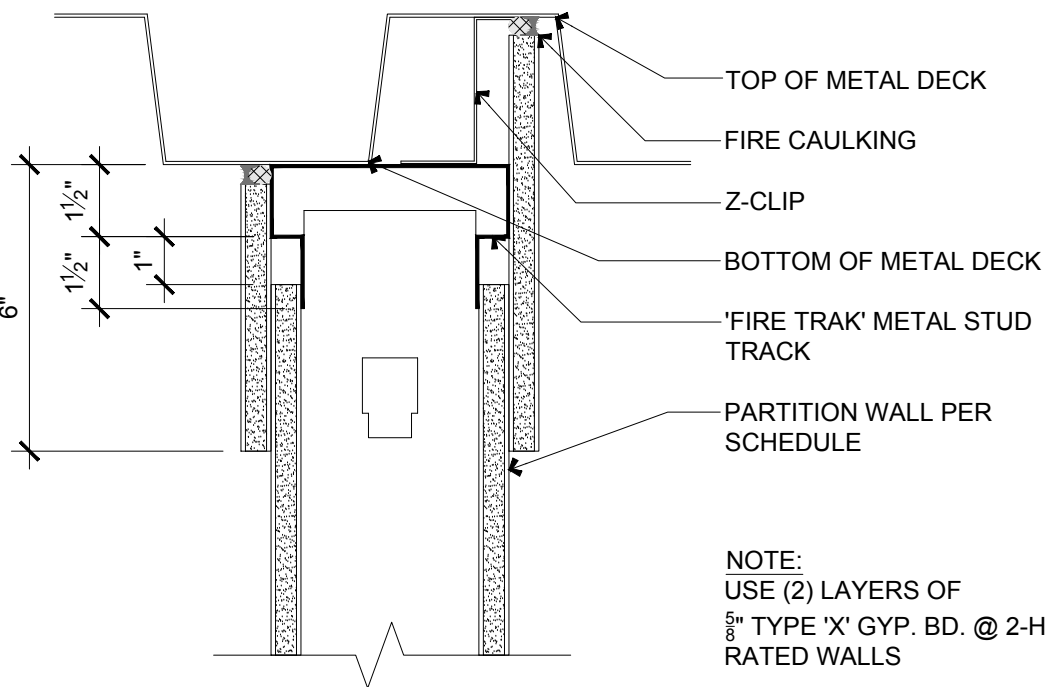
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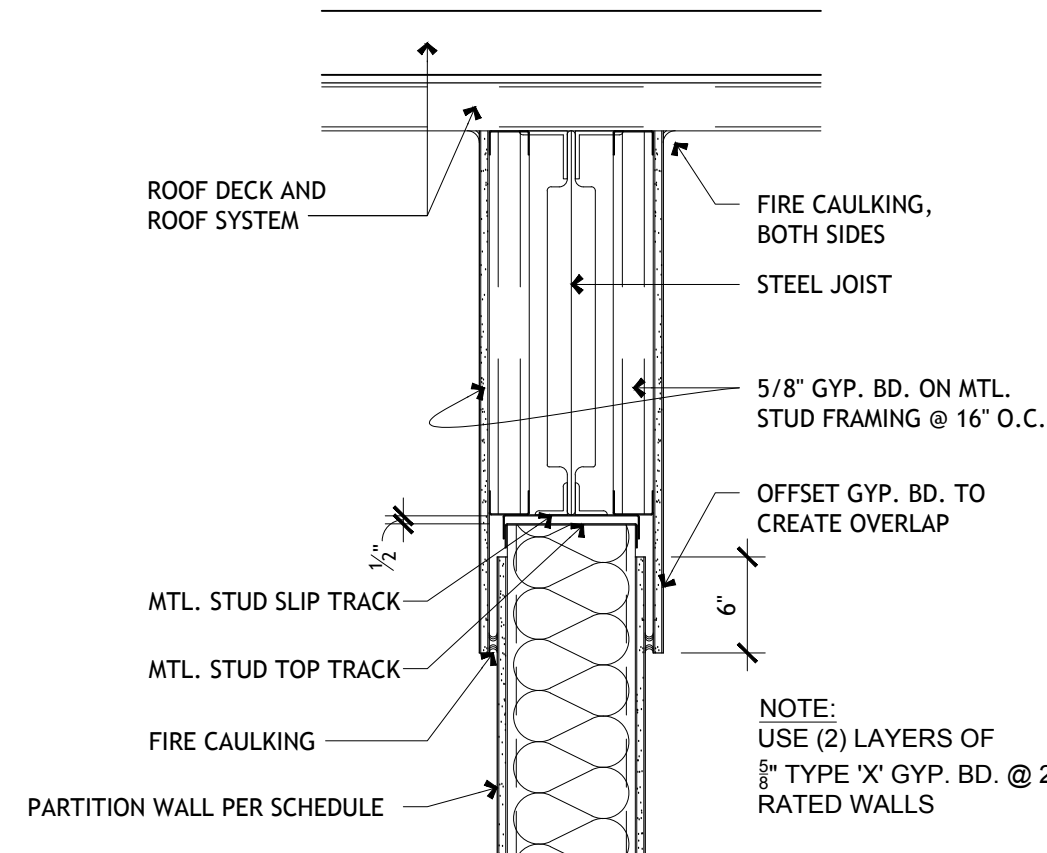
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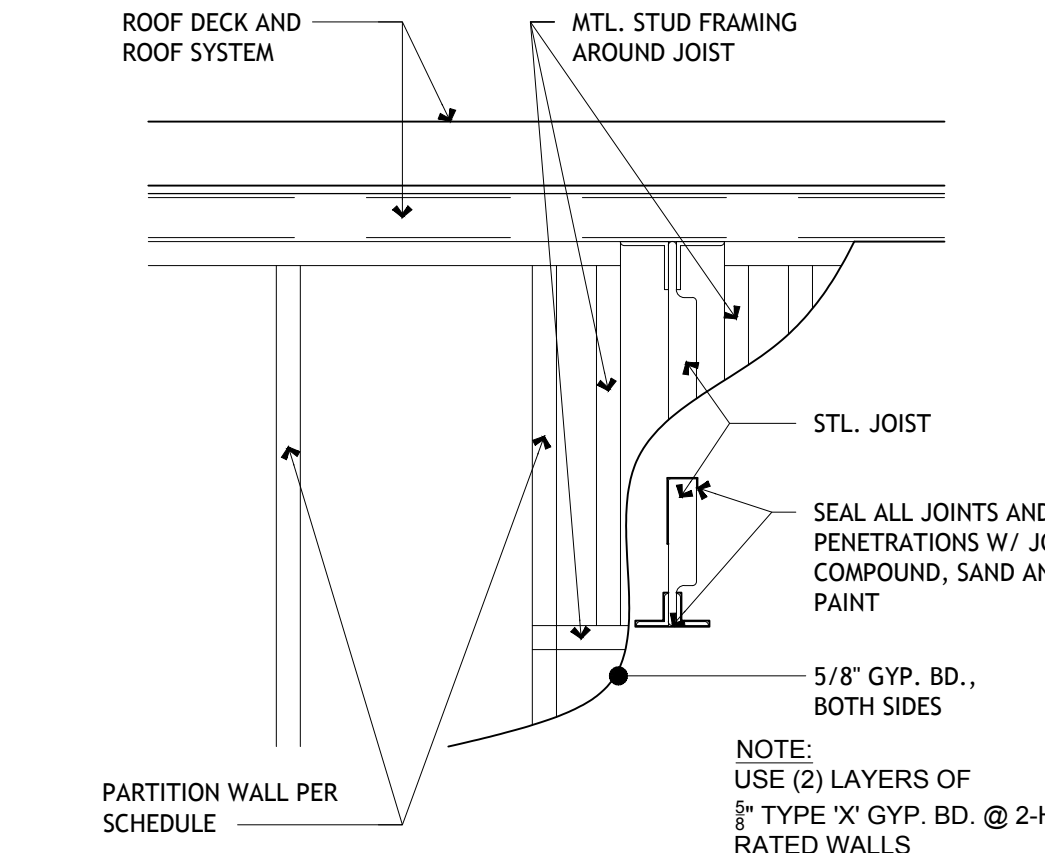
1 Stud Slip Joint - Perpendicular to Deck
SCALE: 3" = 1'-0"



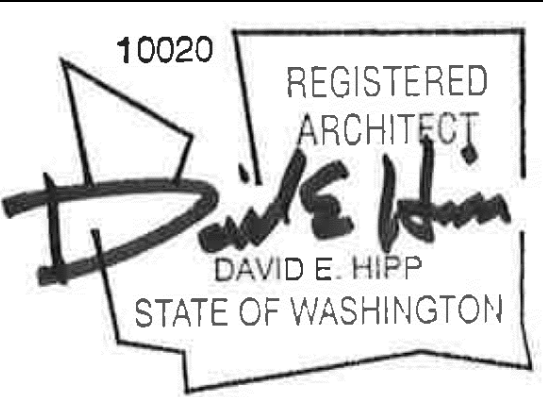
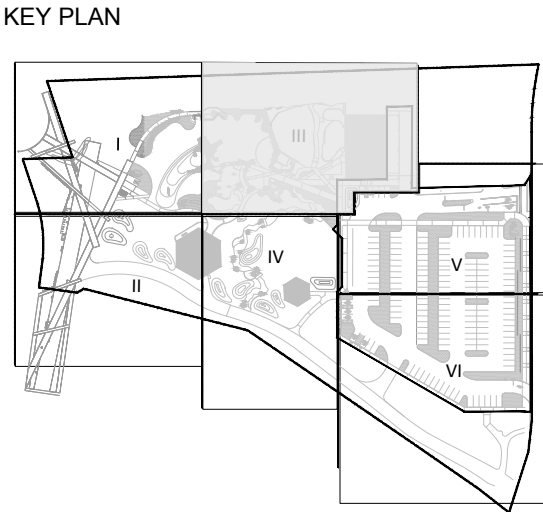
2 Stud Slip Joint - Parallel to Deck
SCALE: 3" = 1'-0"



3 Slip Joint @ Steel Joist
SCALE: 1" = 1'-0"



4 Partion Wall at Steel Joist
SCALE: 1" = 1'-0"

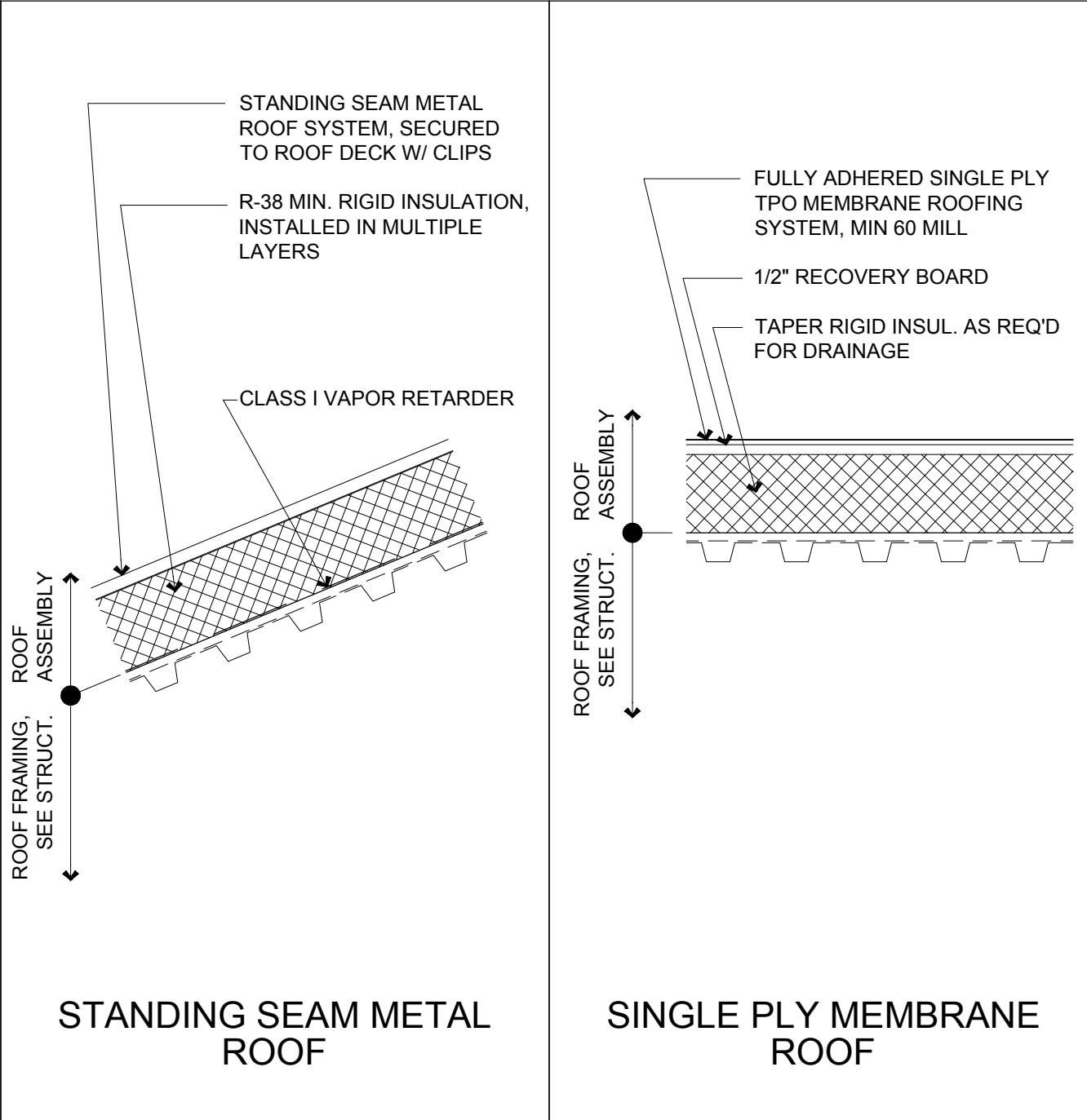


DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 0.3
FILE NAME:	

Roof Assembly Schedule

GRAPHIC LEGEND - ROOF

FLAG - ROOF



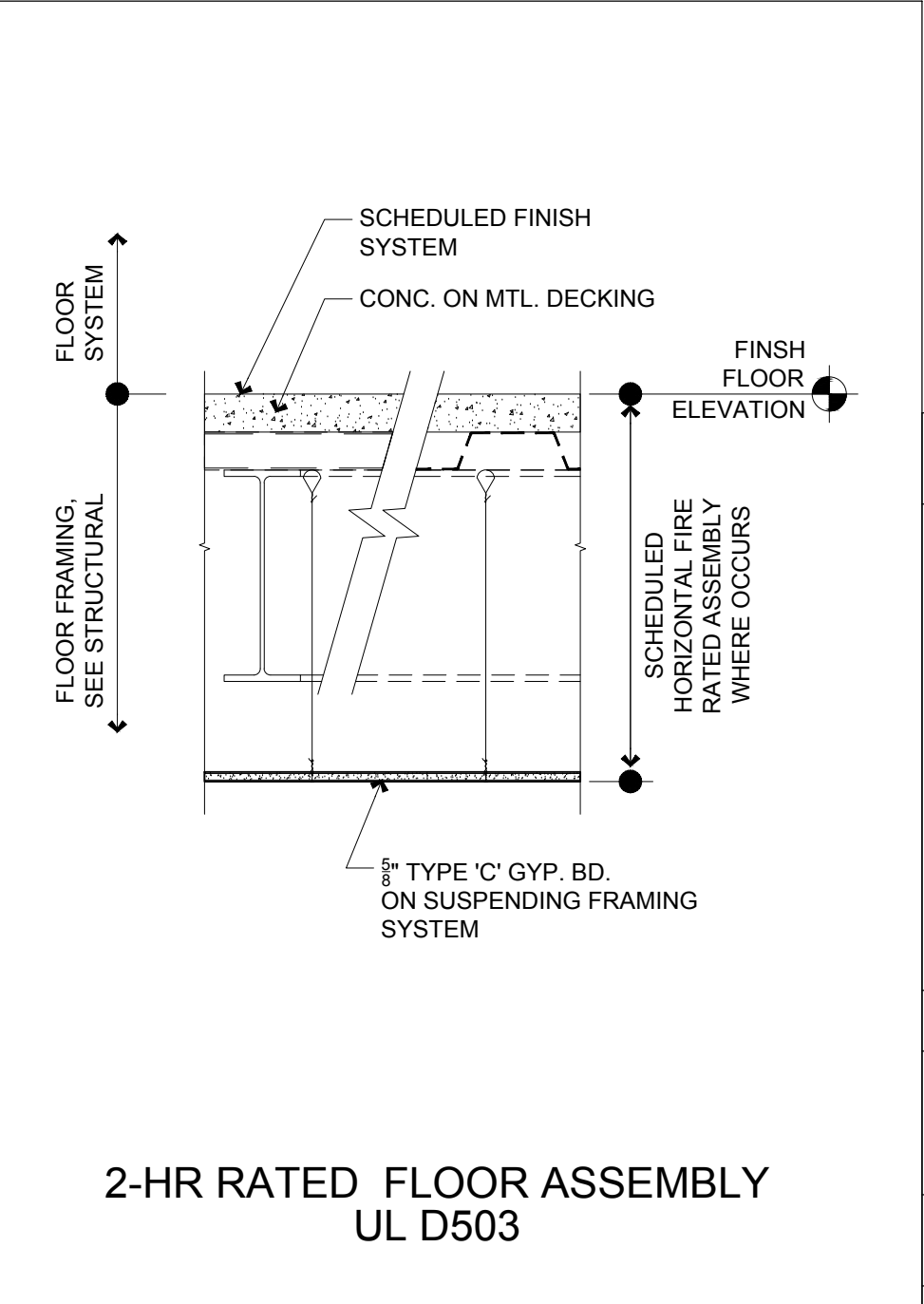
DEFAULT SS-1			DEFAULT SP-1		
ROOF SYSTEM SUFFIX			ROOF SYSTEM SUFFIX		
SUFFIX	ROOFING SYSTEM	ROOF SYS. DETAIL	SUFFIX	ROOFING SYSTEM	ROOF SYS. DETAIL
SS-1	STANDING SEAM HIDDEN FASTNER	-	SP-1	FULLY ADHERED TPO	-
SS-2	STANDING SEAM DIRECT APPLIED TO DECK	-			

- ROOF NOTES**
- WHERE ROOF ASSEMBLIES ARE NOT FLAGGED WITH 'FLAG SYMBOLS', REFER TO GRAPHICAL LEGEND FOR DEFAULT PARTITION TYPES.
 - FLAGGED ROOF ASSEMBLY TYPES ARE ADDITIONAL ROOF ASSEMBLY VARIATIONS AS SHOWN ON THIS SHEET.
 - PROVIDE WALK PADS AS RECOMMENDED BY THE MEMBRANE MANUFACTURER ON ALL SIDES OF MECHANICAL EQUIPMENT AND ROOF HATCH AT LOW SLOPE SINGLE PLY MEMBRANE ROOF SYSTEMS.
 - ON SLOPED ROOF ASSEMBLIES PROVIDE ICE AND WATER SHIELD MEMBRANE AT EAVE, RIDGE, HIP RIDGE AND VALLEY CONDITIONS. INSTALL PER CODE AND MANUFACTURERS REQUIREMENTS.
 - PROVIDE WEAR PADS UNDER ROOF TOP PIPE SUPPORTS.
 - REFER TO ROOF PLAN SHEET FOR ADDITIONAL DETAILS INCLUDING EAVES, VALLEYS, RIDGES, PENETRATIONS, ROOF DRAINS AND EQUIPMENT CURBS.

Floor Assembly Schedule

GRAPHIC LEGEND - FLOOR

FLAG - FLOOR



DEFAULT FLR S-1			
COMPOSITE FLOOR ASSEMBLY SCHEDULE			
SUFFIX	DEFAULT LOCATION, U.N.O.	FINISH	NOTES
S-1	INTERIOR FLOOR	SEE FINISH SCHEDULE	-
S-2	INTERIOR FLOOR	SEE FINISH SCHEDULE	EXPOSED CONC. W/ SMOOTH TROWEL FINISH
-	-	-	-
-	-	-	-
-	-	-	-

- FLOOR NOTES**
- WHERE FLOOR ASSEMBLIES ARE NOT FLAGGED WITH 'FLAG SYMBOLS', REFER TO GRAPHICAL LEGEND FOR DEFAULT PARTITION TYPES.
 - FLAGGED FLOOR ASSEMBLY TYPES ARE ADDITIONAL FLOOR ASSEMBLY VARIATIONS AS SHOWN ON THIS SHEET.

FLAG LEGEND - FLOOR

FLR S1 ASSEMBLY FLAG ASSEMBLY SUFFIX

PLAN FLAG INDICATING NON-DEAFULT ASSEMBLIES

SECTION FLAG INDICATING NON-DEAFULT ASSEMBLIES

NOTES

1. NOTE

FLAG LEGEND - ROOF

RF SP-1 ASSEMBLY FLAG ASSEMBLY SUFFIX

PLAN FLAG INDICATING NON-DEAFULT ASSEMBLIES

SECTION FLAG INDICATING NON-DEAFULT ASSEMBLIES

NOTES

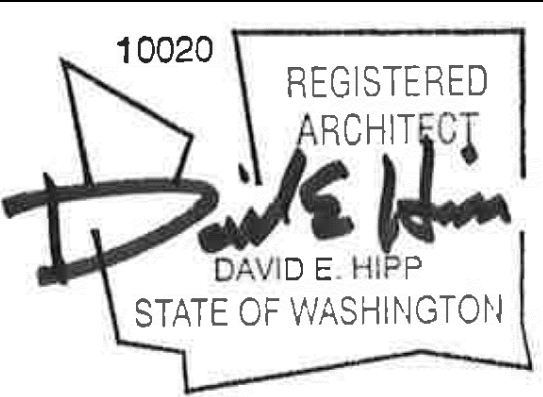
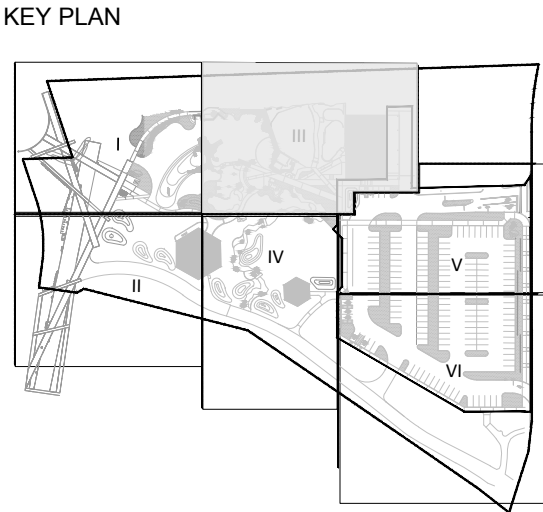
1. NOTE

PROJECT CONSTRUCTION TYPE LEGEND

MATERIAL DESIGNATION	DESCRIPTION OF CONSTRUCTION
W	WOOD CONSTRUCTION
S	STEEL CONSTRUCTION
M	MASONRY CONSTRUCTION
C	CONCRETE CONSTRUCTION

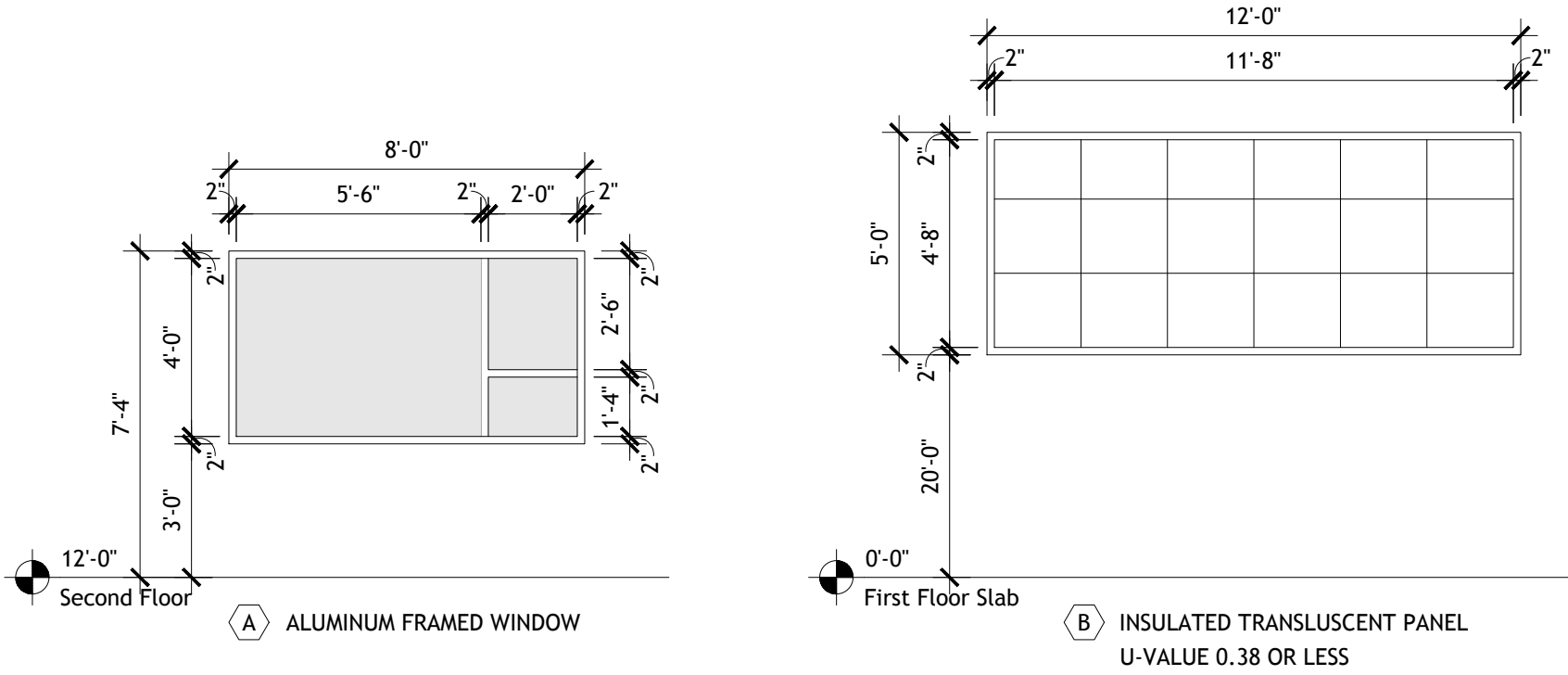
NOTES

1. NOTE



Window Types

NOTE: DEFAULT GLAZING TYPES ARE NOT SHOWN ON WINDOW ELEVATIONS.



Glazing Types

LABEL	TYPE	LOCATION	GLAZING PROPERTIES			NOTES
G1	1" INSULATED DOUBLE PANEL	EXTERIOR WINDOW EXTERIOR DOOR LITE	INSULATED GLASS UNITS			-
DEFAULT GLASS PANELS			PERFORMANCE REQUIREMENTS			
			U-VALUE	SHGC	VLT	
			0.30 MAXIMUM	0.29 MAXIMUM	38% MINIMUM	
G2	1/4" SINGLE PANEL	INTERIOR	CLEAR ANNEALED FLOAT GLASS			
G3	3/16" SINGLE PANEL	DOOR LITE	FIRE-RESISTIVE GLAZING			

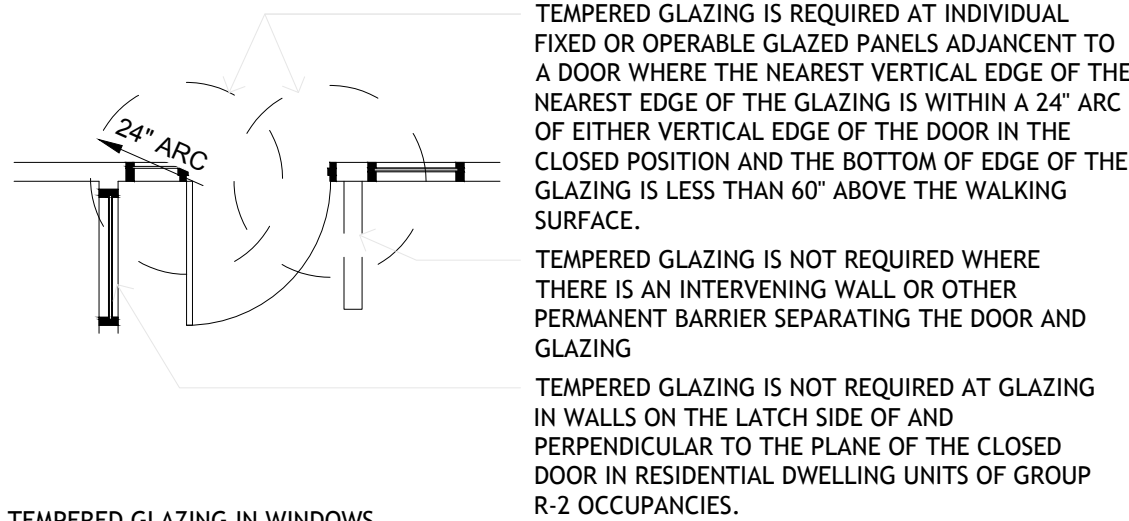
NOTE:
ONLY NON-DEFAULT GLAZING NOTES ARE SHOWN ON DRAWINGS

Tempered Glazing in Doors and Windows

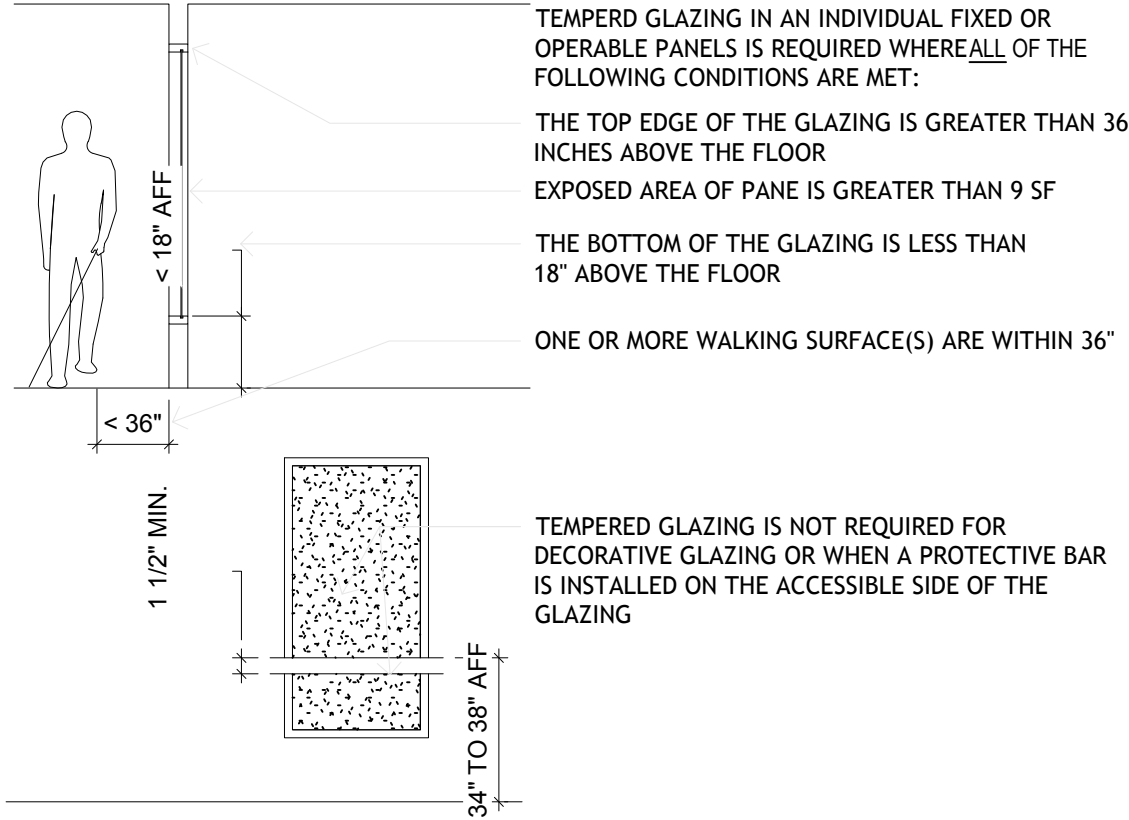
TEMPERED GLAZING SHALL BE PROVIDED WHERE THE FOLLOWING CONDITIONS OCCUR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WHICH OPENING ARE REQUIRED TO RECEIVE TEMPERED GLAZING WITH THE PLANS.

TEMPERED (SAFETY GLAZING) SHALL BE PROVIDED AT HAZARDOUS LOCATIONS PER 2015 IBC 2406.4. TEMPERED GLAZING IS TO MEET THE IMPACT AND IDENTIFICATION REQUIREMENTS OF IBC SECTIONS 2406.1 - 2406.3.

TEMPERED GLAZING ADJACENT TO DOORS (PER 2015 IBC 2406.4.2)



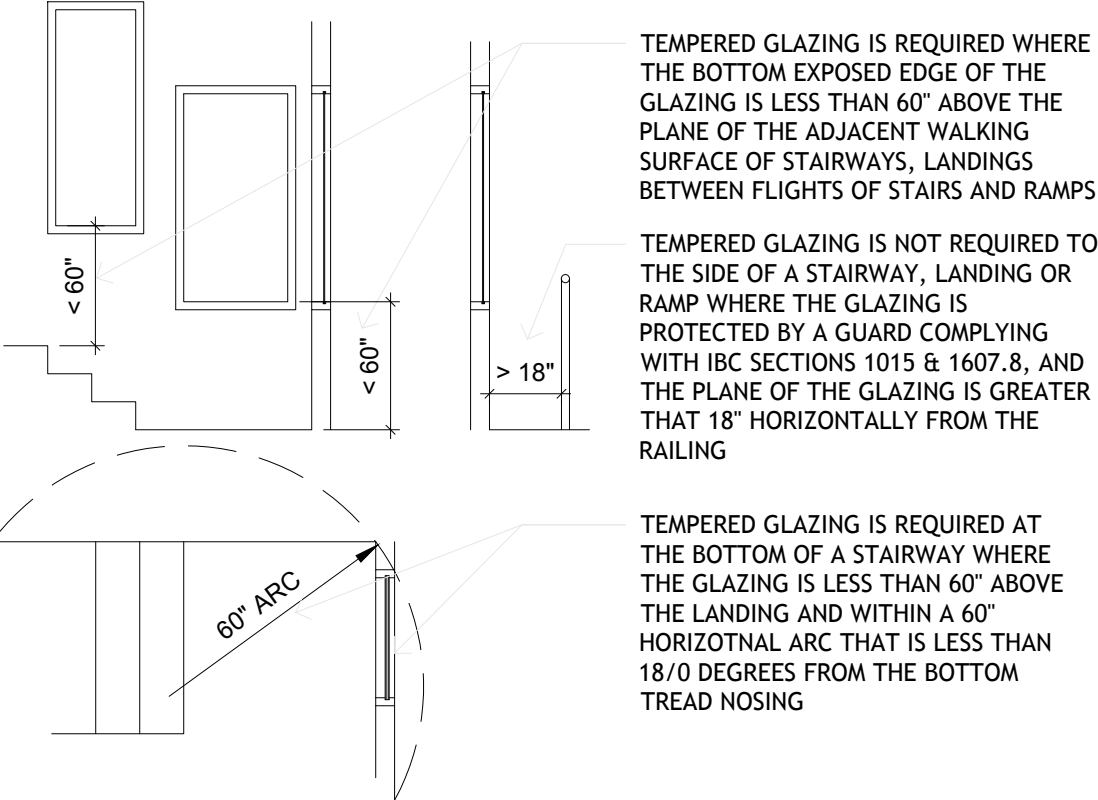
TEMPERED GLAZING IN WINDOWS (PER 2015 IBC 2406.4.3)



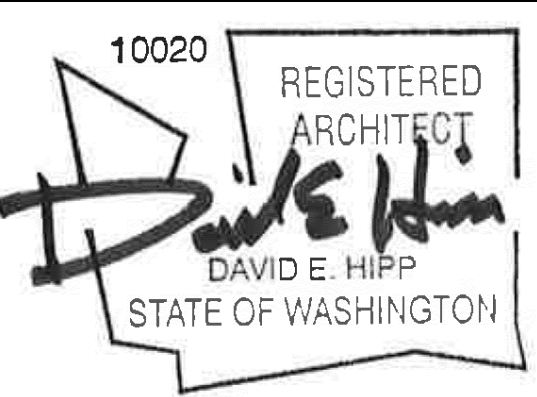
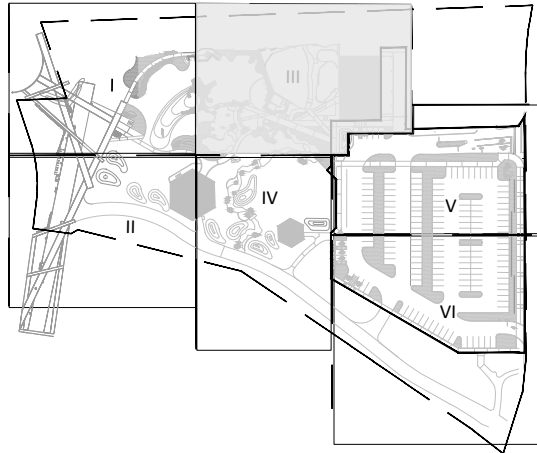
TEMPERED GLAZING AND WET SURFACES (PER 2015 IBC 2406.4.5)

TEMPERED GLAZING IS REQUIRED IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPools, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE ANY STANDING OR WALKING SURFACE. THIS IS TO APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING

TEMPERED GLAZING ADJACENT TO STAIRWAYS, RAMPS AND BOTTOM STAIRWAY LANDING (PER 2015 IBC 2406.4.6 & 2406.4.7)



KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 0.6

FILE NAME:

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

3.15.19	DRAWN	CLK
3.15.19	DESIGNED	DH
	CHECKED	
	APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

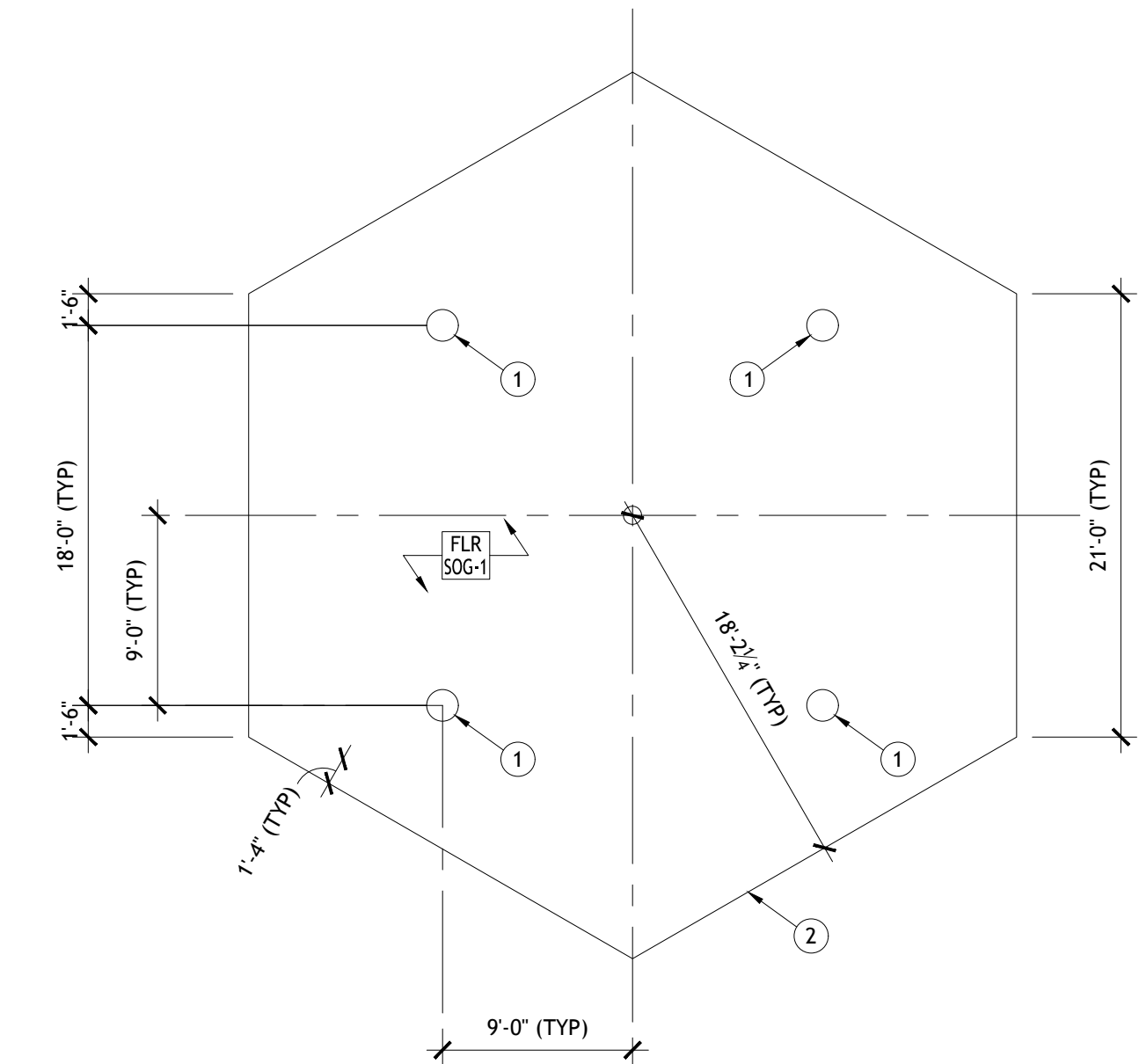
PROJECT TITLE:

RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE:

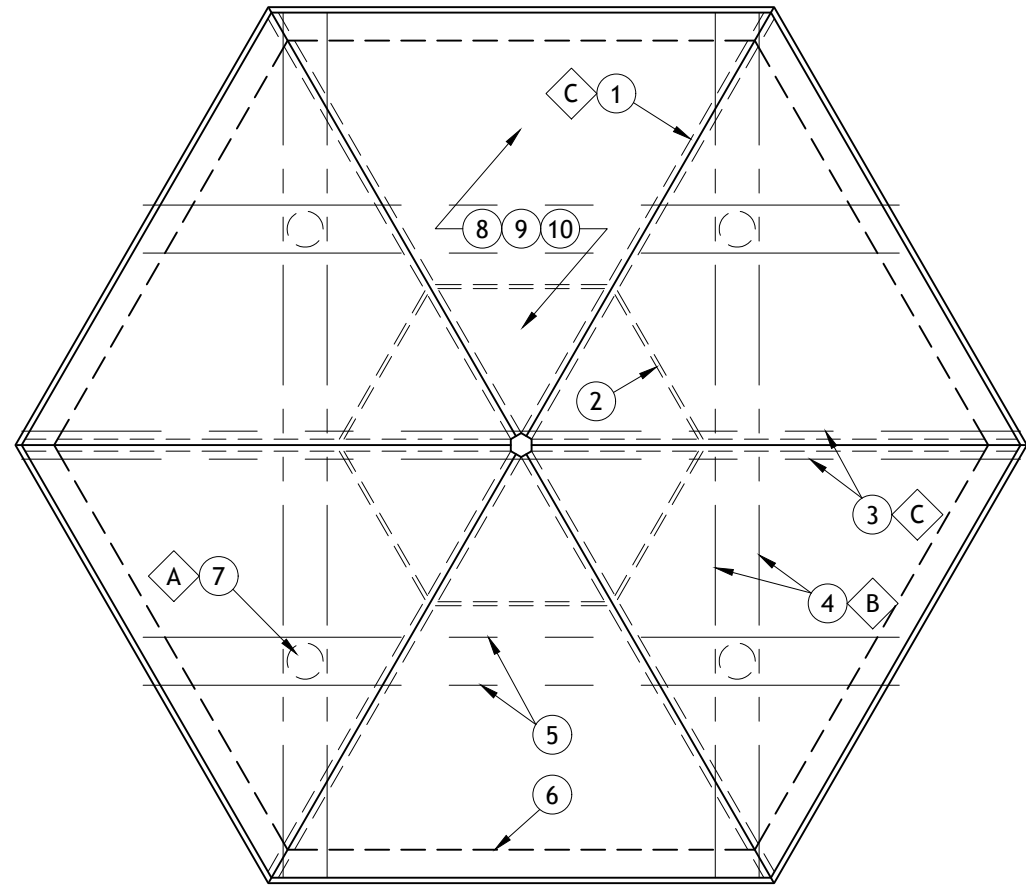
WINDOW SCHEDULE
DETAILS AND NOTES
7.3.2019

DATE: Jun 25, 2019 - 2:28pm by: ckilmer



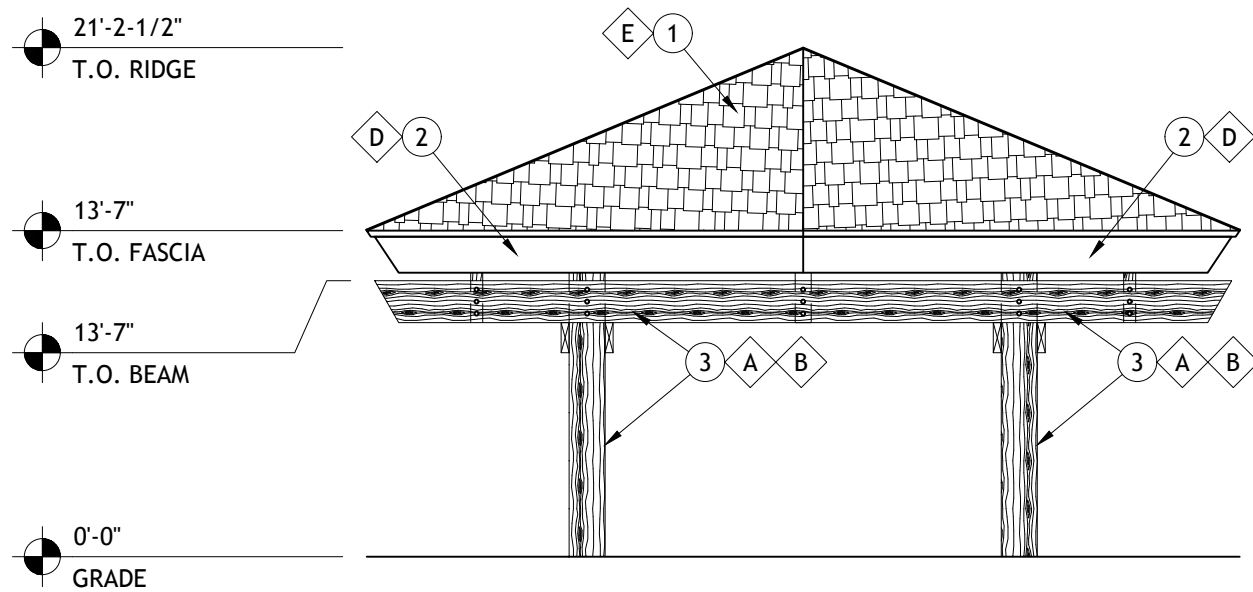
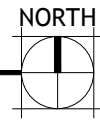
1 Floor Plan - Expo Shelter

SCALE: 1/8" = 1'-0"



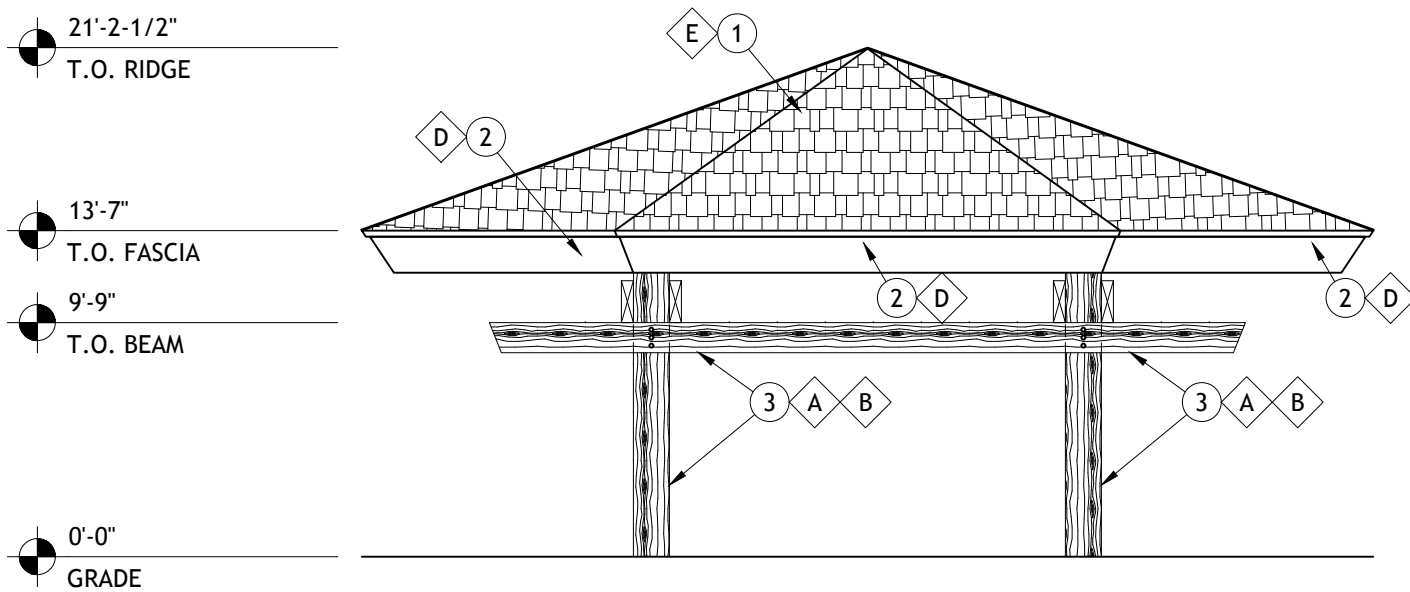
2 Roof Plan - Expo Shelter

SCALE: 1/8" = 1'-0"



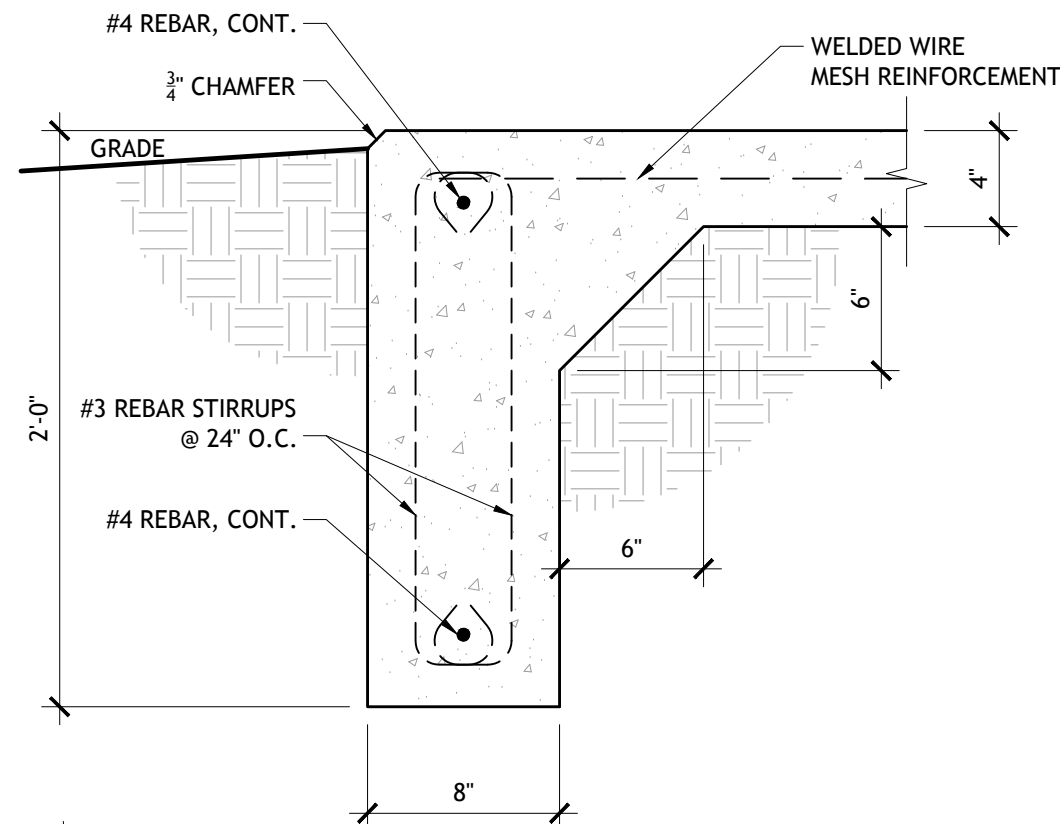
3 North/South Elevation - Expo Shelter

SCALE: 1/8" = 1'-0"



4 East/West Elevation - Expo Shelter

SCALE: 1/8" = 1'-0"



5 Concrete Slab Edge

SCALE: 1-1/2" = 1'-0"

General Notes

- ALL DIMENSIONS TO BE VERIFIED ON SITE AND ALL DISCREPANCIES TO BE REPORTED TO ARCHITECT BEFORE ANY DEMOLITION OR CONSTRUCTION BEGINS.

Floor Plan - Keyed Notes

- EXISTING 18" Ø WOOD COLUMN. PATCH, REPAIR AND PREPARE TO RECEIVE NEW PAINT.
- NEW 4" CONCRETE SLAB TO EDGE OF EXISTING ROOF. SET SLAB ON 4" COMPACTED SUB-GRADE PER GEOTECH REPORT RECOMMENDATIONS. SEE DETAIL 5/A1.1

Roof Plan - Keyed Notes

- EXISTING 2" x10" WOOD RIDGE BEAM. CLEAN CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE TO RECEIVE NEW PAINT
- EXISTING 2" x 6" WOOD ROOF JOIST. CLEAN CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE TO RECEIVE NEW PAINT.
- EXISTING 6" x 21" WOOD BEAM. CLEAN CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE TO RECEIVE NEW PAINT.
- EXISTING 6" x 21" WOOD BEAM. CLEAN CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE TO RECEIVE NEW PAINT.
- EXISTING 4" x 15" WOOD BEAM. CLEAN CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE TO RECEIVE NEW PAINT.
- EXISTING FASCIA.
- EXISTING 18" Ø WOOD COLUMN.
- REMOVE EXISTING CEDAR SHAKE ROOFING DOWN TO EXISTING WOOD DECK.
- REMOVE AND REPLACE DAMAGED WOOD DECK BOARDS. MATCH SIZE, SHAPE AND SPECIES OF ADJACENT WOOD DECK MATERIAL.
- PROVIDE AND INSTALL 15# FELT UNDERLAYMENT AND COMPOSITE SHAKE SHINGLES.

Elevation - Keyed Notes

- NEW COMPOSITE SHAKE SHINGLE ROOF SYSTEM.
- REMOVE ALL DAMAGED FASCIA AND TRIM, REPLACE WITH NEW FASCIA AND TRIM. PREPARE ALL NEW AND EXISTING FASCIA AND TRIM TO RECEIVE PAINT.
- PATCH AND REPAIR DAMAGED PORTIONS OF EXISTING FRAMING. PREPARE SURFACE TO RECEIVE NEW PAINT.

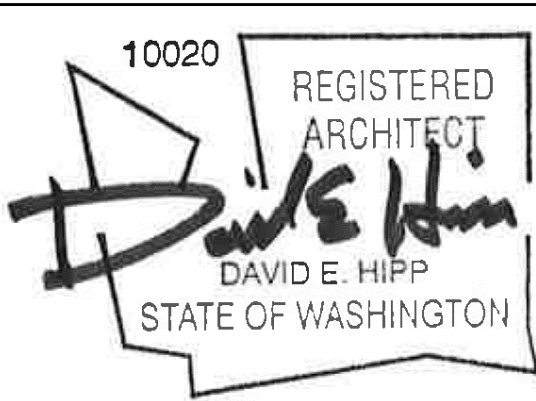
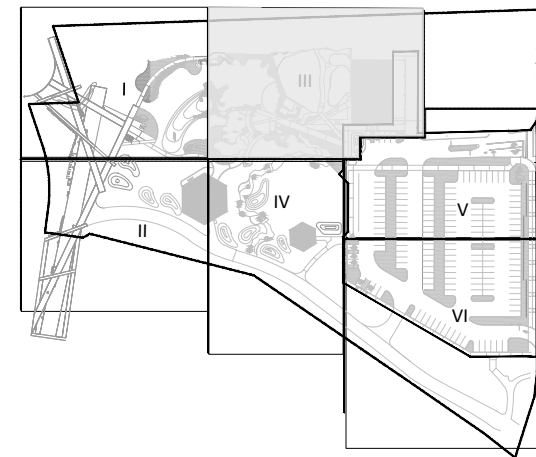
Material Color Legend

- A PAINT: COLOR-MATCH TAN (COLUMNS)
- B PAINT: COLOR-MATCH BLUE (BEAMS)
- C PAINT: COLOR-MATCH PURPLE (RAFTERS)
- D PAINT: COLOR-MATCH _____ (FASCIA)
- E PAINT: COLOR-MATCH _____ (COMPOSITE SHINGLE ROOF)

NOTE:

COLORS TO BE COORDINATED W/ OWNER/ARCHITECT PRIOR TO INSTALLATION

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 1.1

FILE NAME:

DATE: Jun 25, 2019 - 2:28pm by: ckilmer

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

8.15.19	DRAWN CLK
8.15.19	DESIGNED DH
	CHECKED
	APPROVED

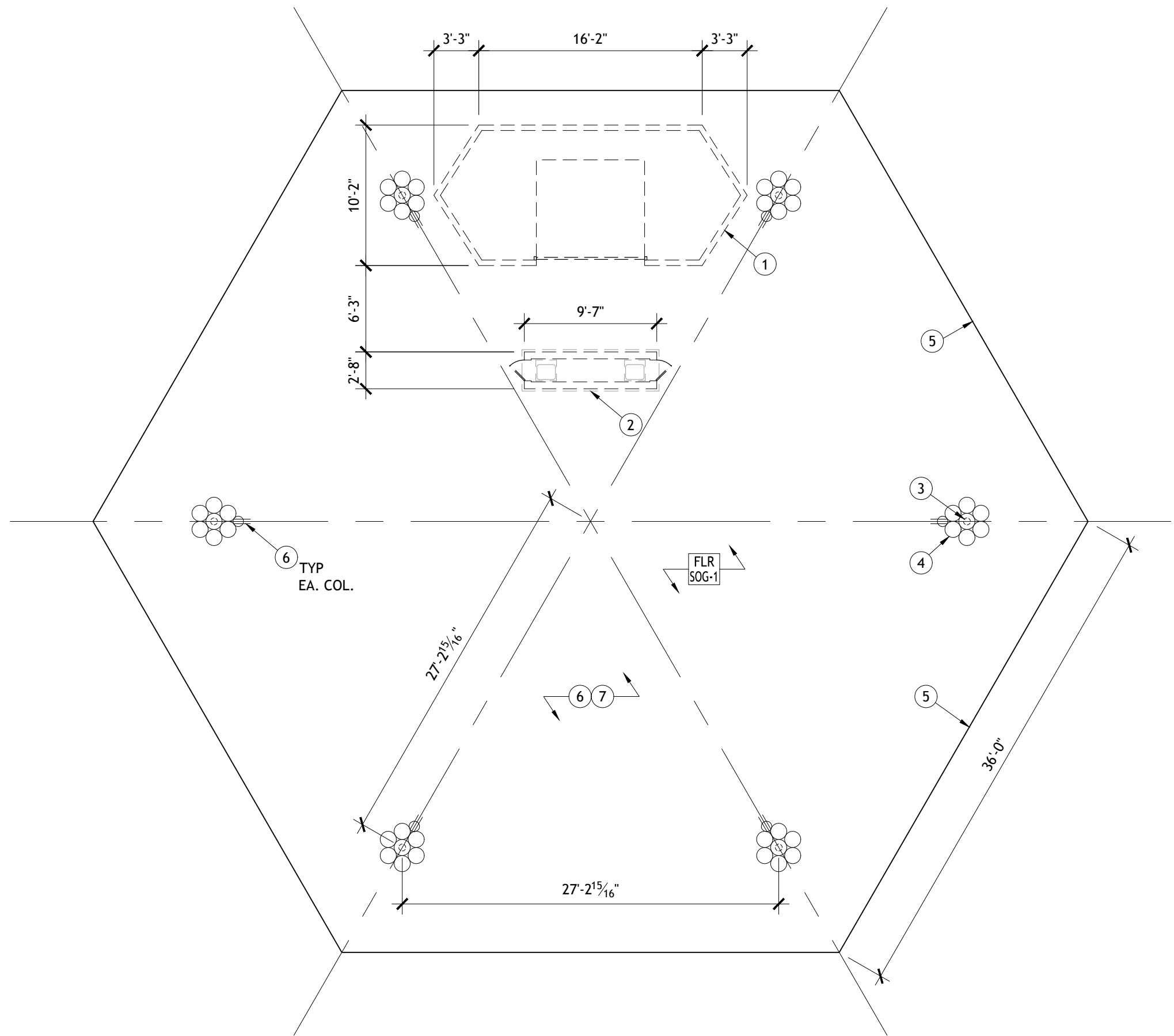


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

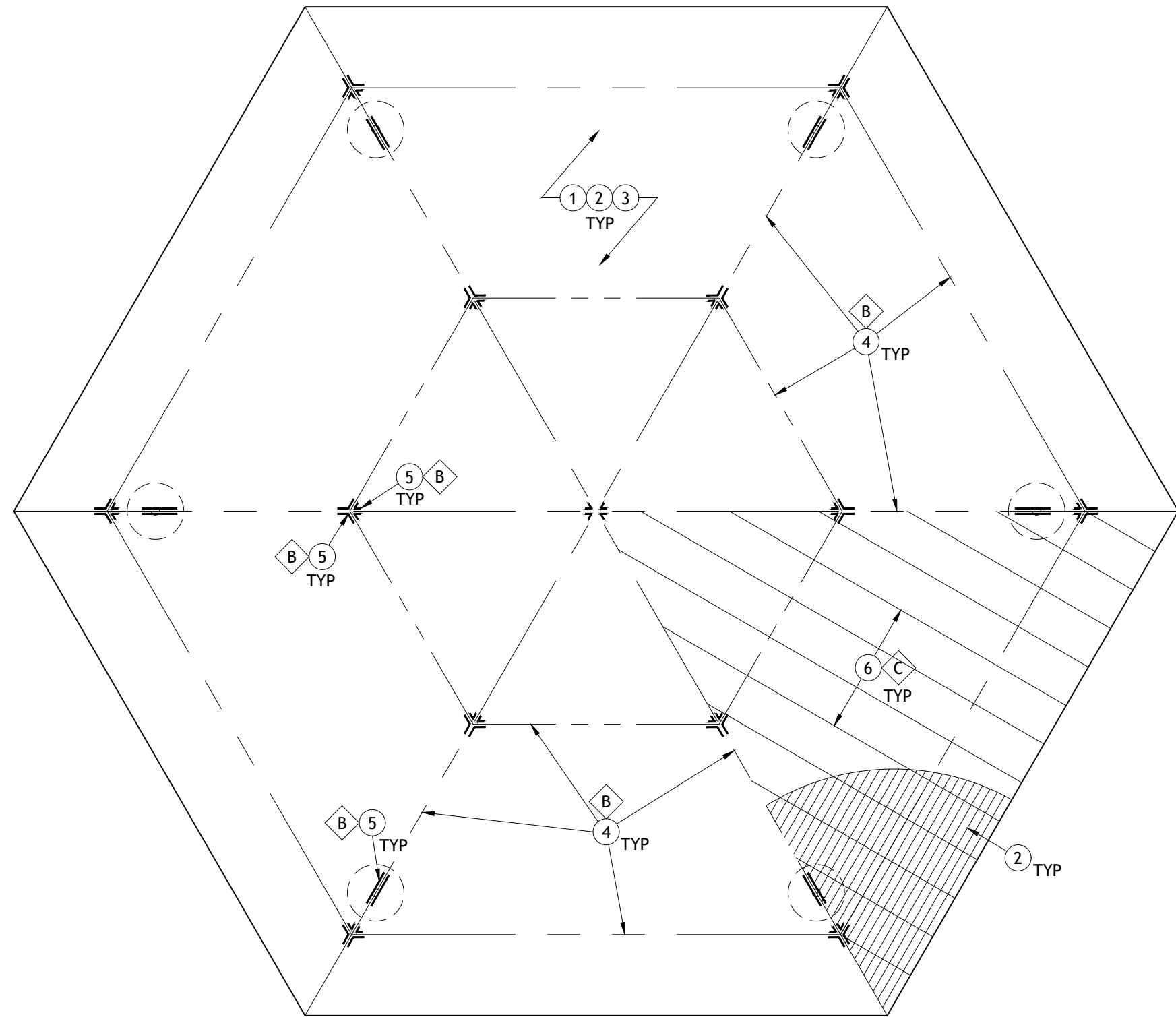
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: EXPO SHELTER
FLOOR PLAN, ROOF PLAN, ELEVATIONS, NOTES
7.3.2019



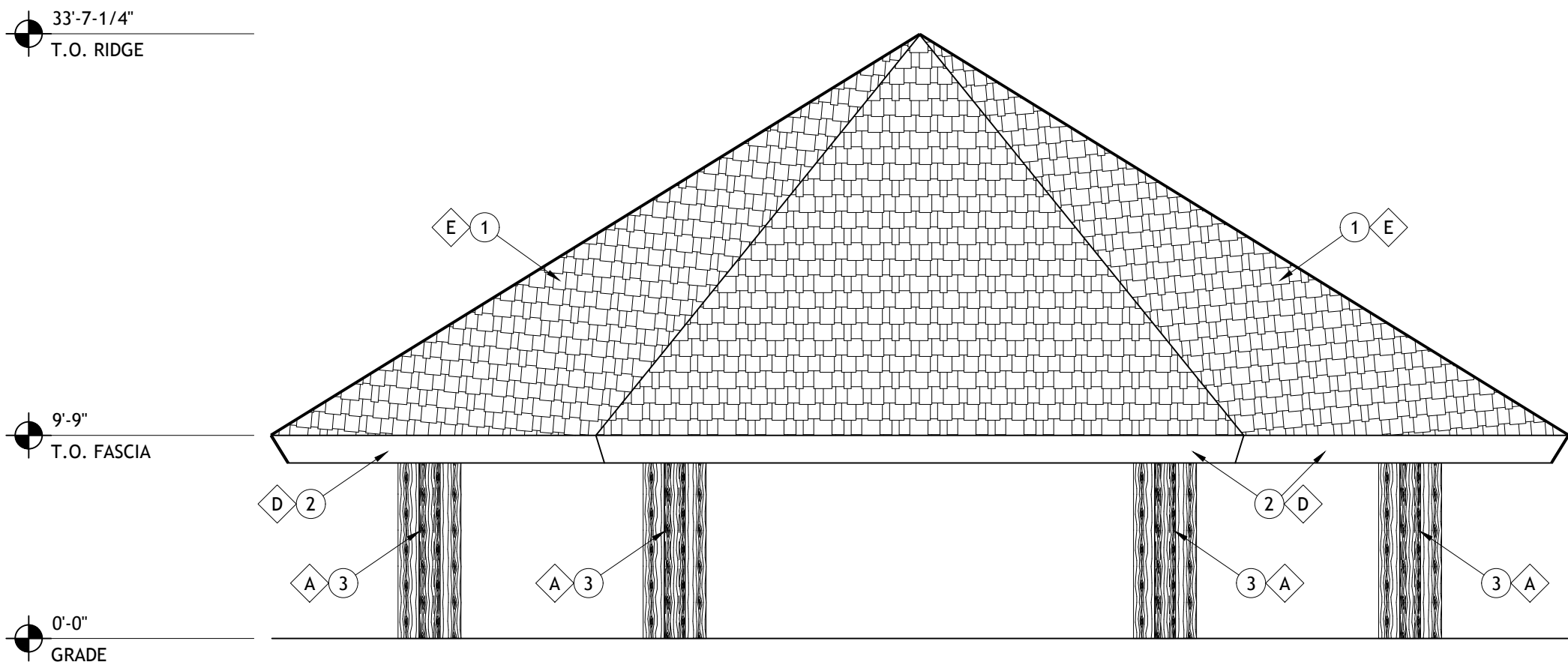
1 Floor Plan - Large Pavillion

SCALE: 1/8" = 1'-0"



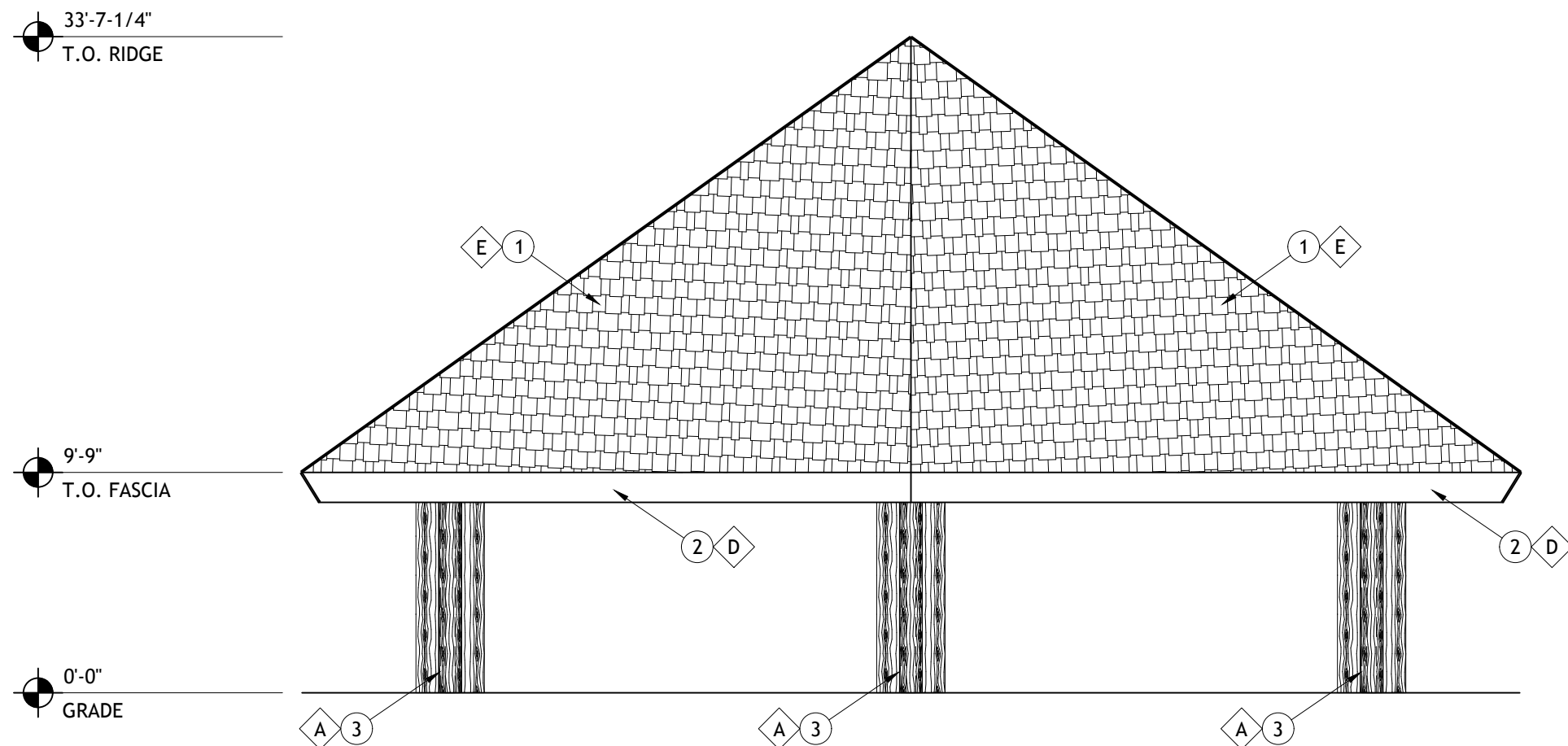
2 Roof Plan - Large Pavillion

SCALE: 1/8" = 1'-0"



3 East Elevation - Large Pavillion

SCALE: 1/8" = 1'-0"



4 West Elevation - Large Pavillion

SCALE: 1/8" = 1'-0"

General Notes

1.

Floor Plan - Keyed Notes

- EXISTING WOOD STRUCTURE TO BE REMOVED. PATCH AND REPAIR CONCRETE AS NEEDED. CAP UTILITIES BELOW SLAB. PATCH AND REPAIR CONCRETE TO MATCH EXISTING/ADJACENT CONCRETE.
- EXISTING CONCRETE ISLAND W/ STAINLESS STEEL COUNTERTOP AND PLUMBING TO BE REMOVED. CAP UTILITIES BELOW SLAB. PATCH AND REPAIR CONCRETE TO MATCH EXISTING/ADJACENT CONCRETE.
- EXISTING 14"Ø SUPPORTING WOOD COLUMN WITH 6"Ø STEEL PIPE INSERT W/ STEEL BRACKET FOR BEAM ATTACHMENT. CLEAN, PATCH, REPAIR AND PREPARE TO ACCEPT PAINT.
- EXISTING 14"Ø NON-SUPPORTING WOOD COLUMN ATTACHED TO SUPPORTING COLUMN W/ LAG BOLTS. CLEAN, PATCH, REPAIR AND PREPARE TO ACCEPT NEW PAINT.
- EXISTING CONCRETE PAD. PATCH AND REPAIR DAMAGED AREAS TO MATCH ADJACENT FLOOR SLAB
- EXISTING ELECTRICAL OUTLET AND CONDUIT TO REMAIN. SEE ELECTRICAL
- ATTACH WIRE MESH TO UNDERSIDE OF RAFTERS. PROVIDE METAL ANGLE FOR SECURE ATTACHMENT. MINIMIZE HOLES AT BEAMS. SEE DETAIL 5/A1.2

Roof Plan - Keyed Notes

- REMOVE EXISTING SHAKE ROOF STRUCTURE DOWN TO EXISTING WOOD DECK.
- EXISTING WOOD ROOF DECK ABOVE RAFTERS. REPLACE DAMAGED WOOD DECK BOARDS. MATCH SIZE, SHAPE AND SPECIES OF ADJACENT WOOD DECK MATERIAL.
- PROVIDE AND INSTALL 15# FELT UNDERLAYMENT AND COMPOSITE SHAKE SHINGLES.
- EXISTING WOOD STRUCTURE. CLEAN AND FILL SPLITS OR CRACKS THAT ARE 3/4" OR LESS W/ EPOXY BASED WOOD FILLER. PREPARE ALL ROOF MEMBERS TO RECEIVE PAINT.
- EXISTING STEEL BRACKETS. CLEAN AND PREPARE TO RECEIVE PAINT. PAINT TO MATCH EXISTING ADJACENT BEAMS.
- EXISTING WOOD RAFTERS. CLEAN AND PREPARE TO RECEIVE PAINT. PAINT TO MATCH EXISTING ADJACENT BEAMS

Elevation - Keyed Notes

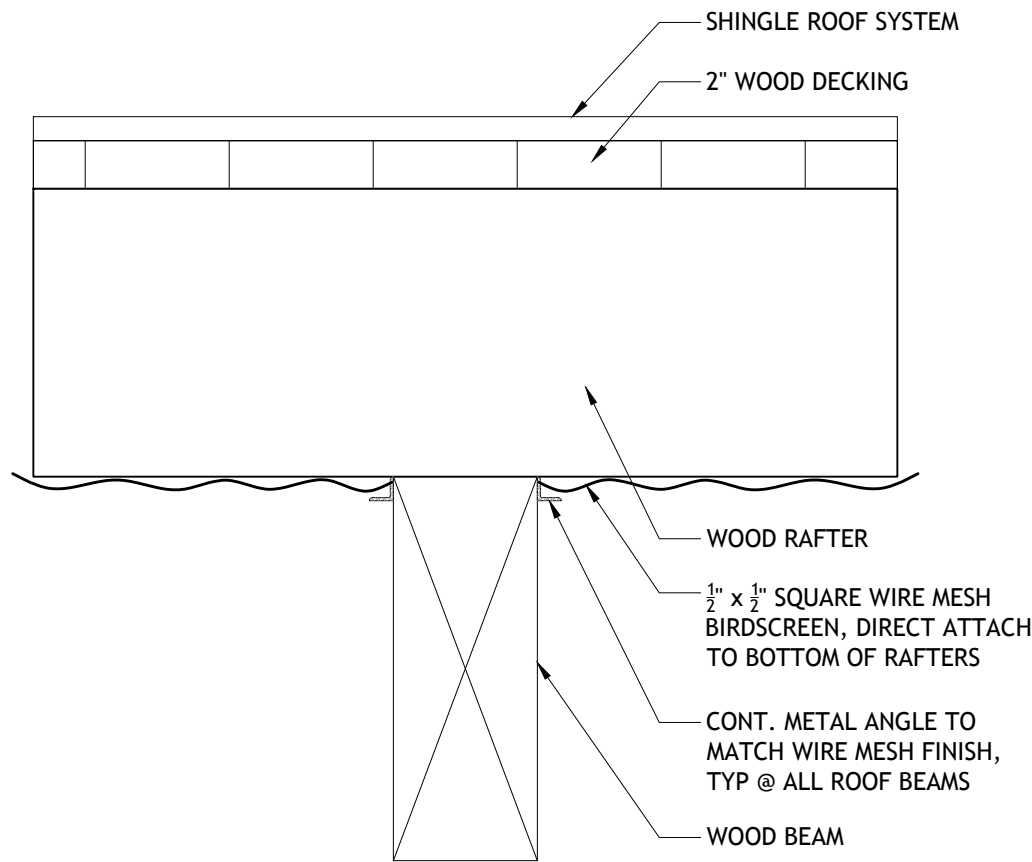
- NEW COMPOSITE SHAKE SHINGLE ROOF SYSTEM.
- REMOVE ALL DAMAGED FASCIA AND TRIM, REPLACE WITH NEW FASCIA AND TRIM. PREPARE ALL NEW AND EXISTING FASCIA AND TRIM TO RECEIVE PAINT.
- PATCH AND REPAIR DAMAGED PORTIONS OF EXISTING WOOD COLUMNS AND FRAMING. PREPARE SURFACE TO RECEIVE PAINT.

Material Color Legend

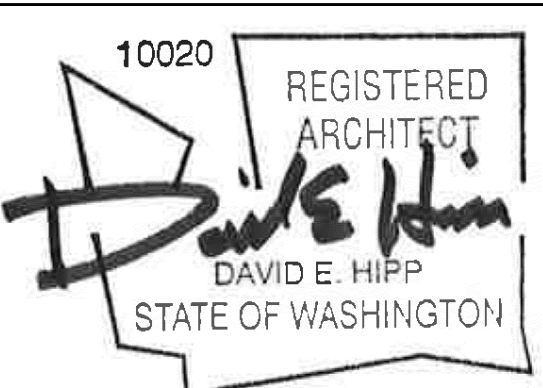
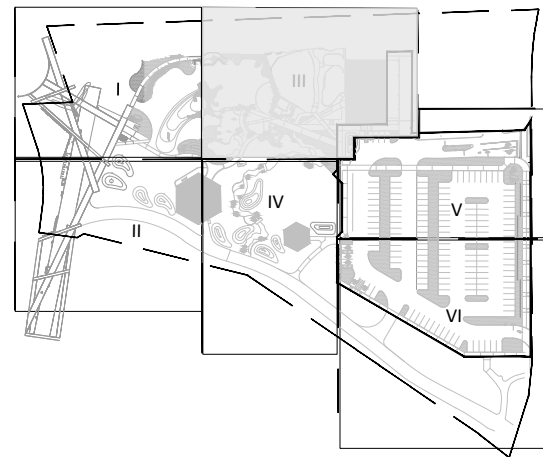
- A PAINT: COLOR-MATCH TAN (COLUMNS)
B PAINT: COLOR-MATCH BLUE (BEAMS)
C PAINT: COLOR-MATCH PURPLE (RAFTERS)
D PAINT: COLOR-MATCH (FASCIA)
E PAINT: COLOR-MATCH (COMPOSITE SHINGLE ROOF)

NOTE:

COLORS TO BE COORDINATED W/ OWNER/ARCHITECT PRIOR TO INSTALLATION



KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 1.2

FILE NAME:

DATE: Jun 25, 2019 - 2:28pm by: ckilmer

BY	REVISIONS	DATE

B W A BERNARDO | WILLS
ARCHITECTS PC

LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'
ELEVATION	1734.64' @ CAP #CP9
CBM NO.	43N, 44W NAVD 88
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

8.15.19	DRAWN - CLK
8.15.19	DESIGNED DH
	CHECKED
	APPROVED

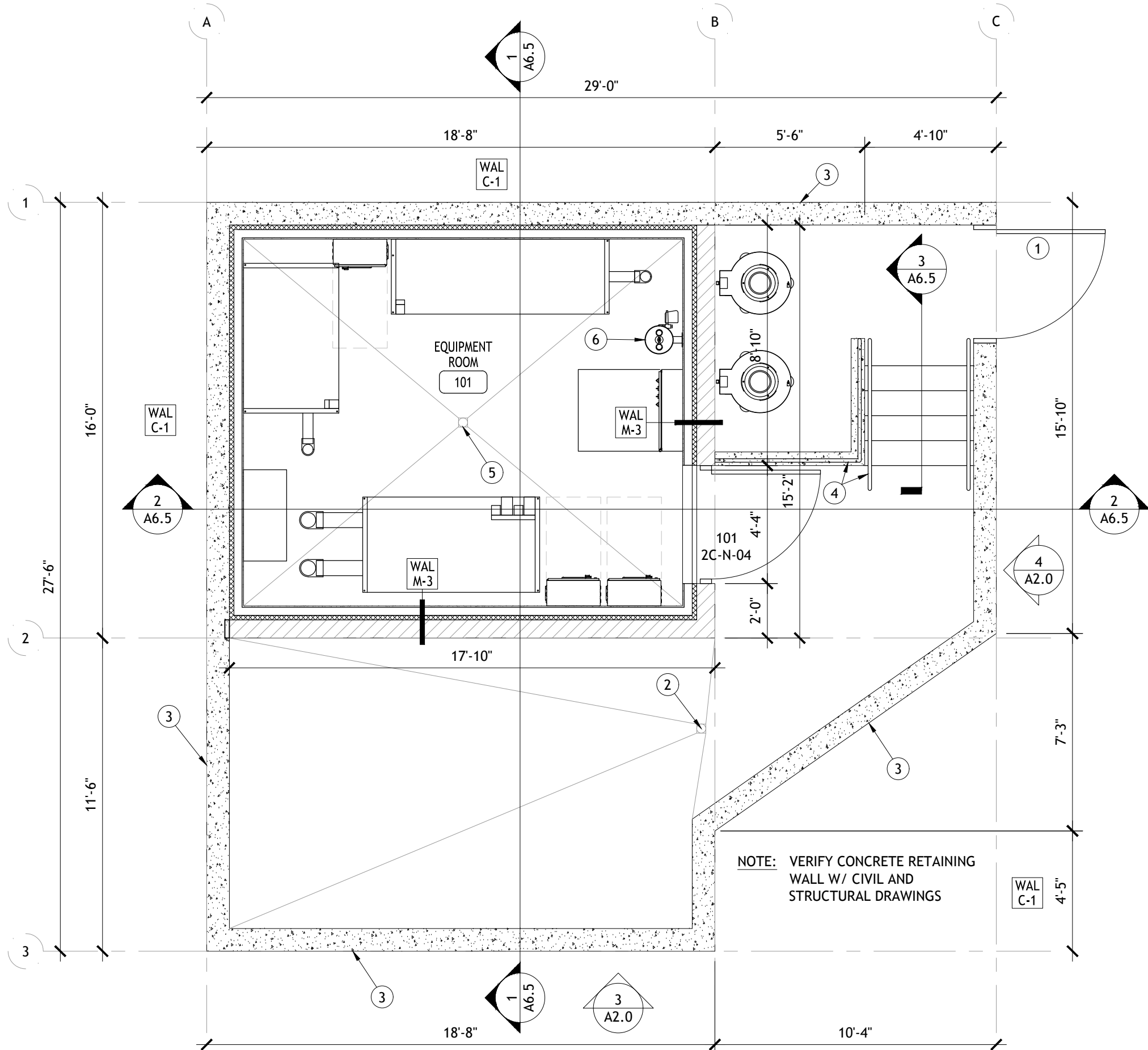


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

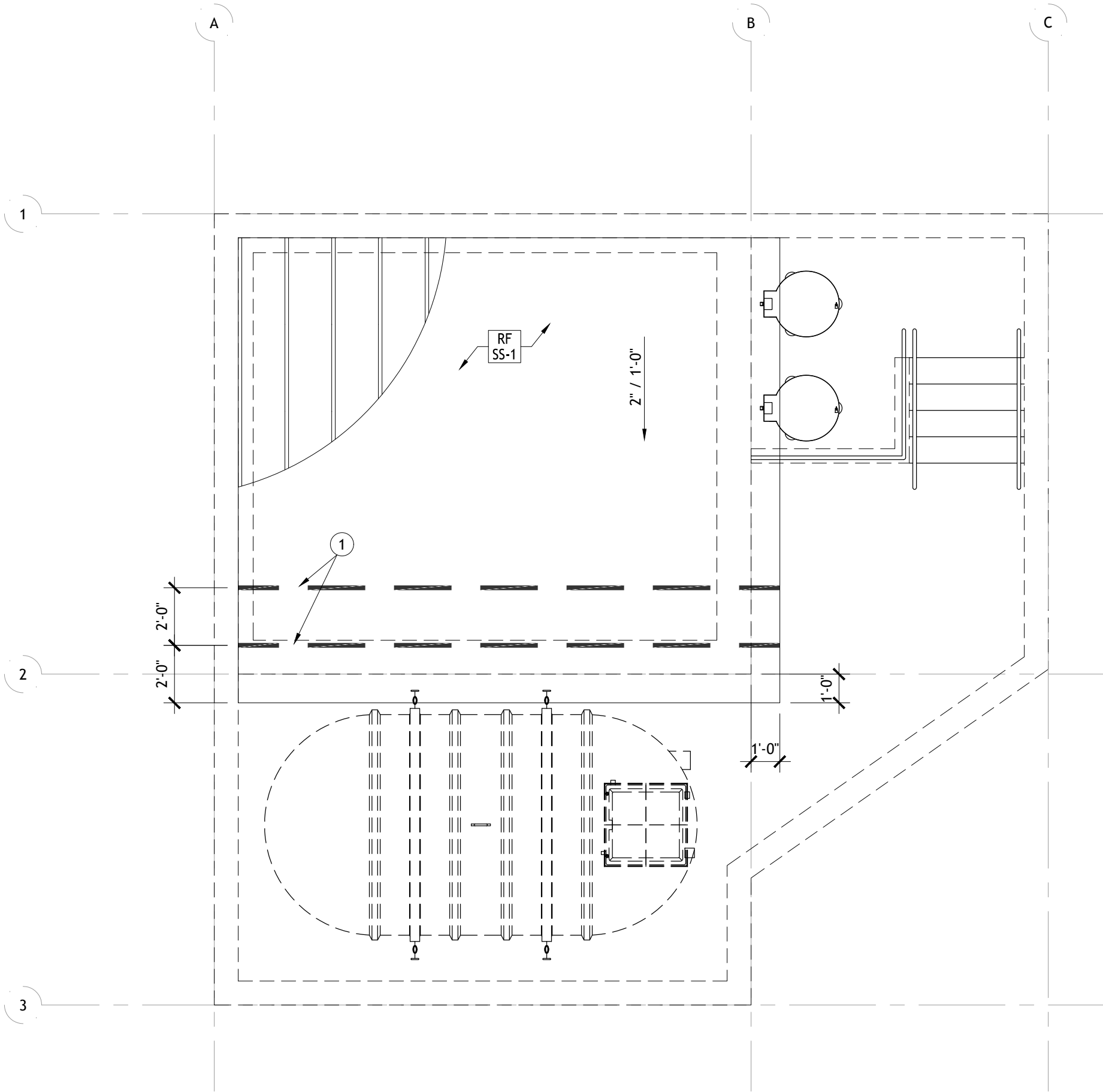
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: LARGE PAVILLION SHELTER
FLOOR PLAN, ROOF PLAN, ELEVATIONS, NOTES
7.3.2019



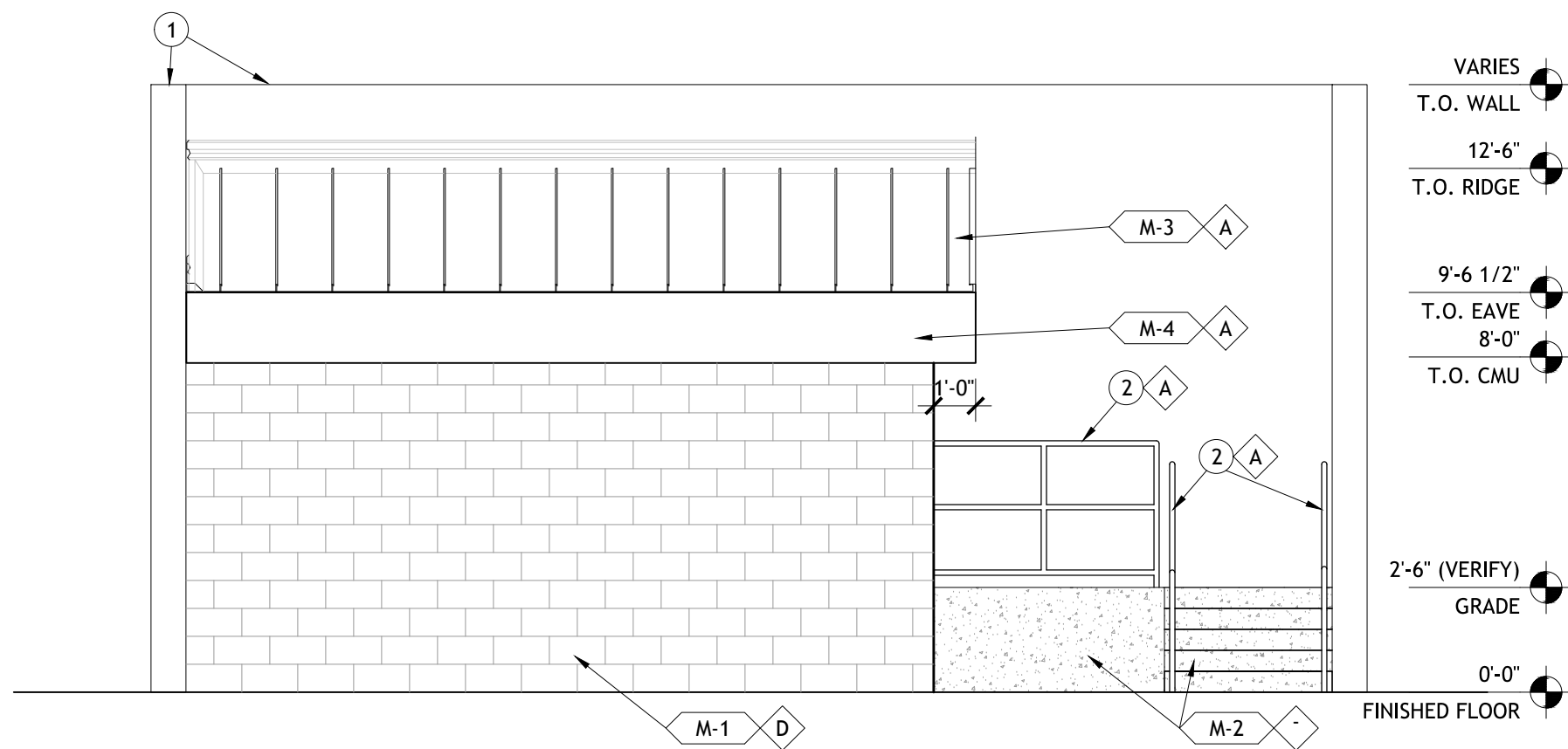
1 Floor Plan - New Pump House

SCALE: 1/4" = 1'-0"



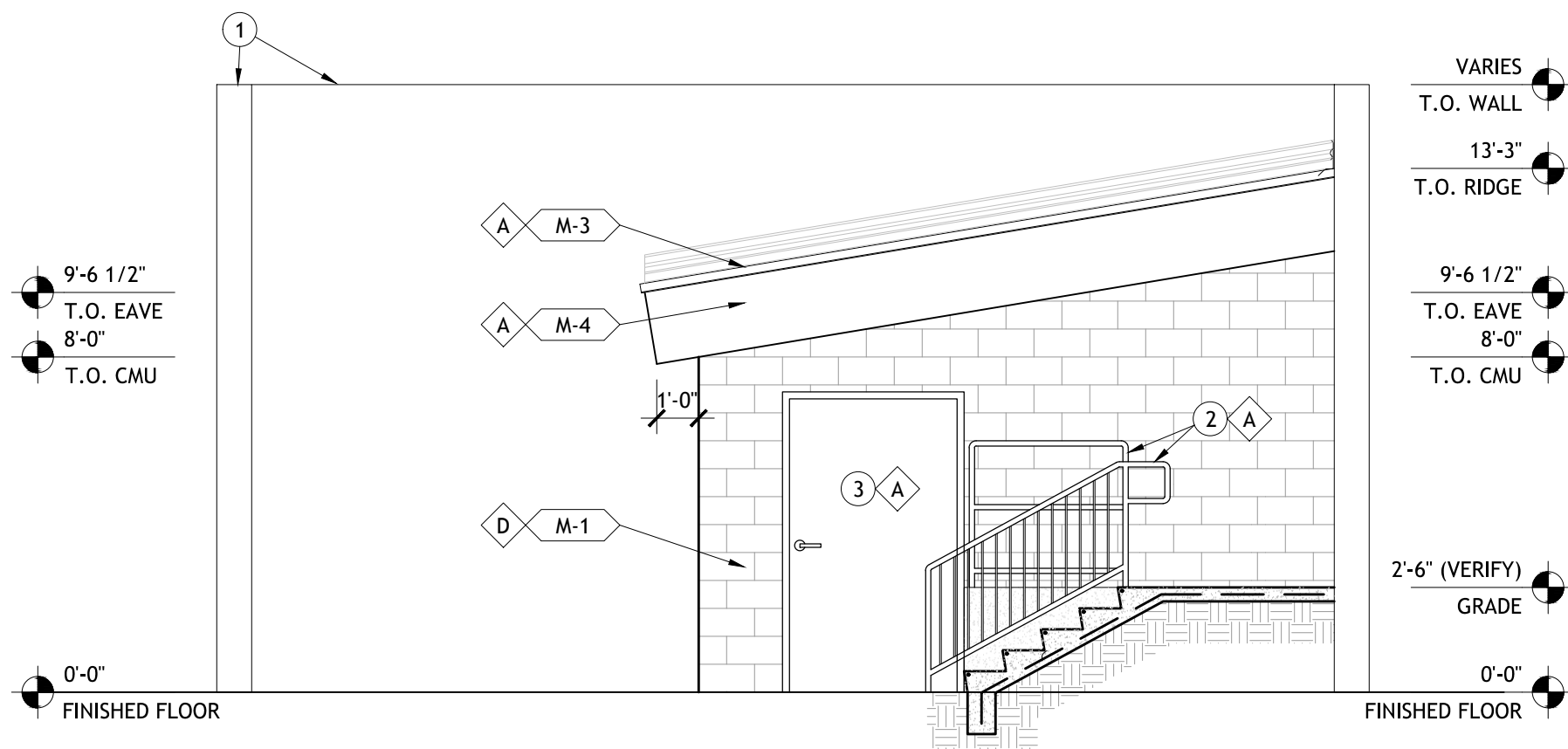
2 Roof Plan - New Pump House

SCALE: 1/4" = 1'-0"



3 SOUTH ELEVATION

SCALE: 1/4" = 1'-0"



4 EAST ELEVATION

SCALE: 1/4" = 1'-0"

General Notes

- REFER TO SCHEDULE SHEETS A0.1 THROUGH A0.6 FOR INFORMATION REGARDING WALLS, DOORS AND WINDOWS.
- ALL FURNITURE N.I.C.
- SEE MECHANICAL & ELECTRICAL DRAWINGS FOR EQUIPMENT.

Floor Plan Keyed Notes

- GATE, SEE LANDSCAPE PLANS
- FLOOR DRAIN W/ SLOPED SLAB, SEE CIVIL
- CONCRETE RETAINING WALL, SEE LANDSCAPING, CIVIL AND STRUCTURAL
- HAND/GUARD RAIL, SEE DETAIL 3/A6.5
- FLOOR DRAIN, SEE MECHANICAL AND CIVIL
- WALL MOUNTED, STAND ALONE EYE-WASH STATION

Roof Plan Keyed Notes

- SNOW GUARDS

Elevation Keyed Notes

- CONCRETE RETAINING WALL, SEE LANDSCAPING, CIVIL AND STRUCTURAL
- 1 1/2" PIPE HAND RAIL, PAINTED. SEE DETAIL 3/A6.5
- HOLLOW METAL DOOR, PAINTED

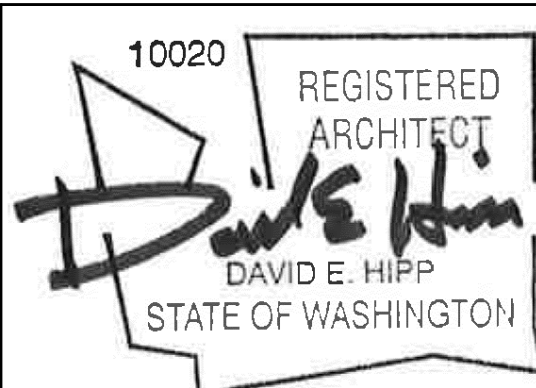
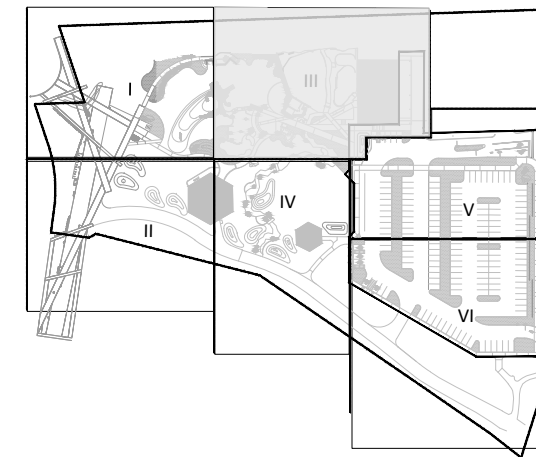
Materials & Finishes

- M-1 8" SPLIT FACE CMU W/ INTEGRAL COLOR
- M-2 EXPOSED CONCRETE
- M-3 STANDING SEAM METAL ROOF SYSTEM
- M-4 PRE-FINISHED MTL FASCIA
- M-5 10" SMOOTH FACE CMU W/ INTEGRAL COLOR
- M-6 PRE-FINISHED MTL SOFFIT
- M-7 PRE-FINISHED STANDING SEAM MTL ROOFING

Material Color Legend

- A COLOR: MATCH AEP SPAN 'WEATHERED COPPER'
- B COLOR: MATCH MUTUAL MATERIALS 'KHAKI'
- C COLOR: MATCH MUTUAL MATERIALS 'DRIFTWOOD'
- D COLOR: NATURAL GREY CMU

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

REVISION NO.:

DRAWING NUMBER

A 2.0

FILE NAME:

DATE: Jun 25, 2019 - 2:28pm by: ckilmer

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

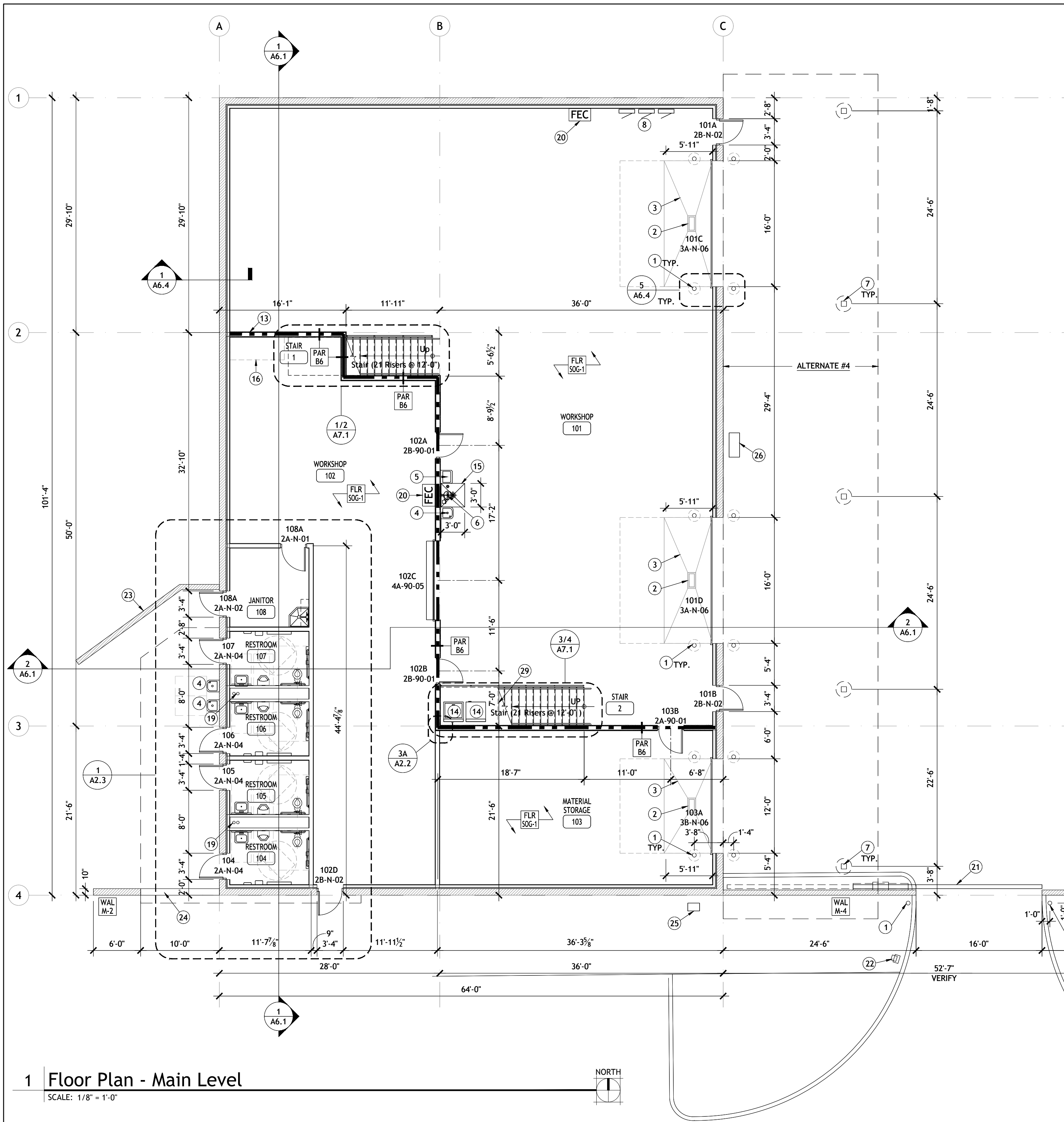
LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	ELEVATION 1734.64' @ CAP #CP9 CBM NO. 43N, 44W NAVD 88	HORIZONTAL VERTICAL	SCALE
CITY DATUM			

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	DRAWN CLK DESIGNED DH CHECKED APPROVED



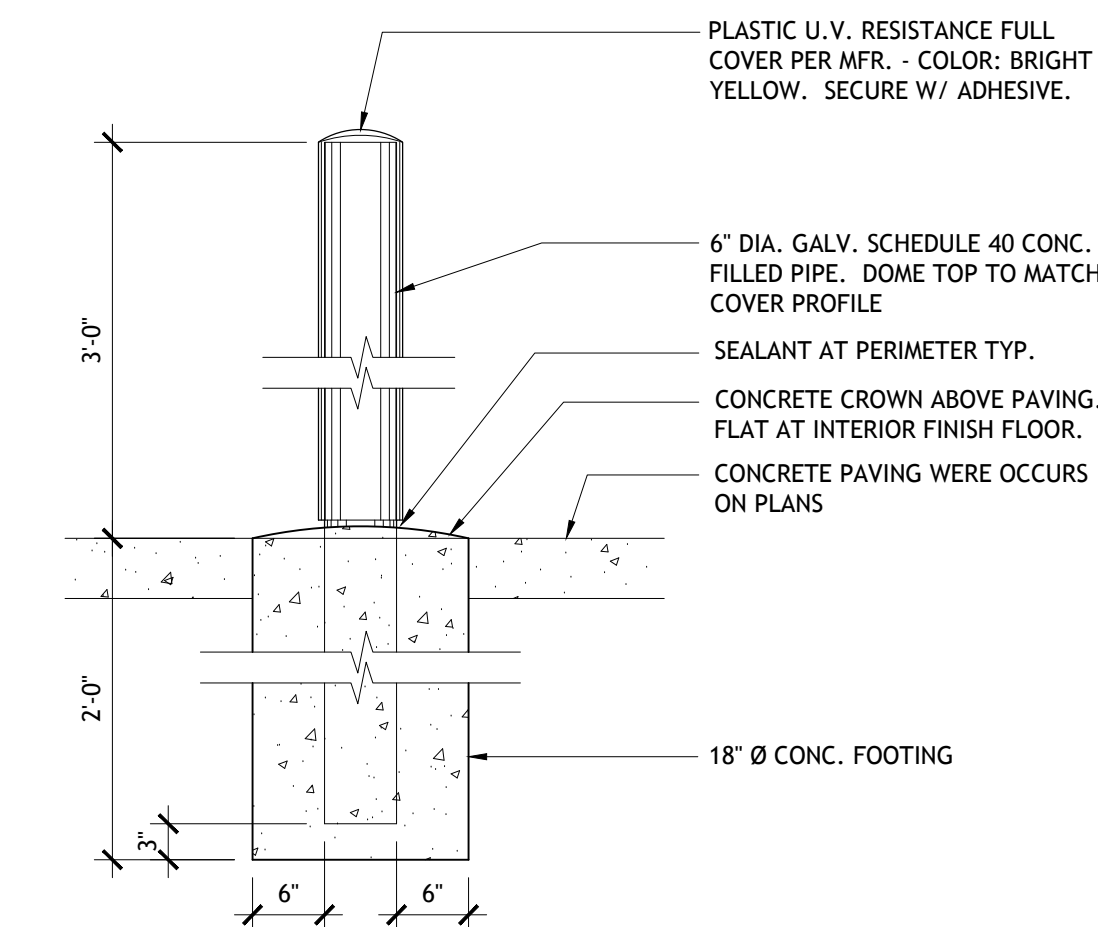
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET	
SHEET TITLE: PUMP HOUSE FLOOR PLAN, ROOF PLAN AND ELEVATIONS 7.3.2019	



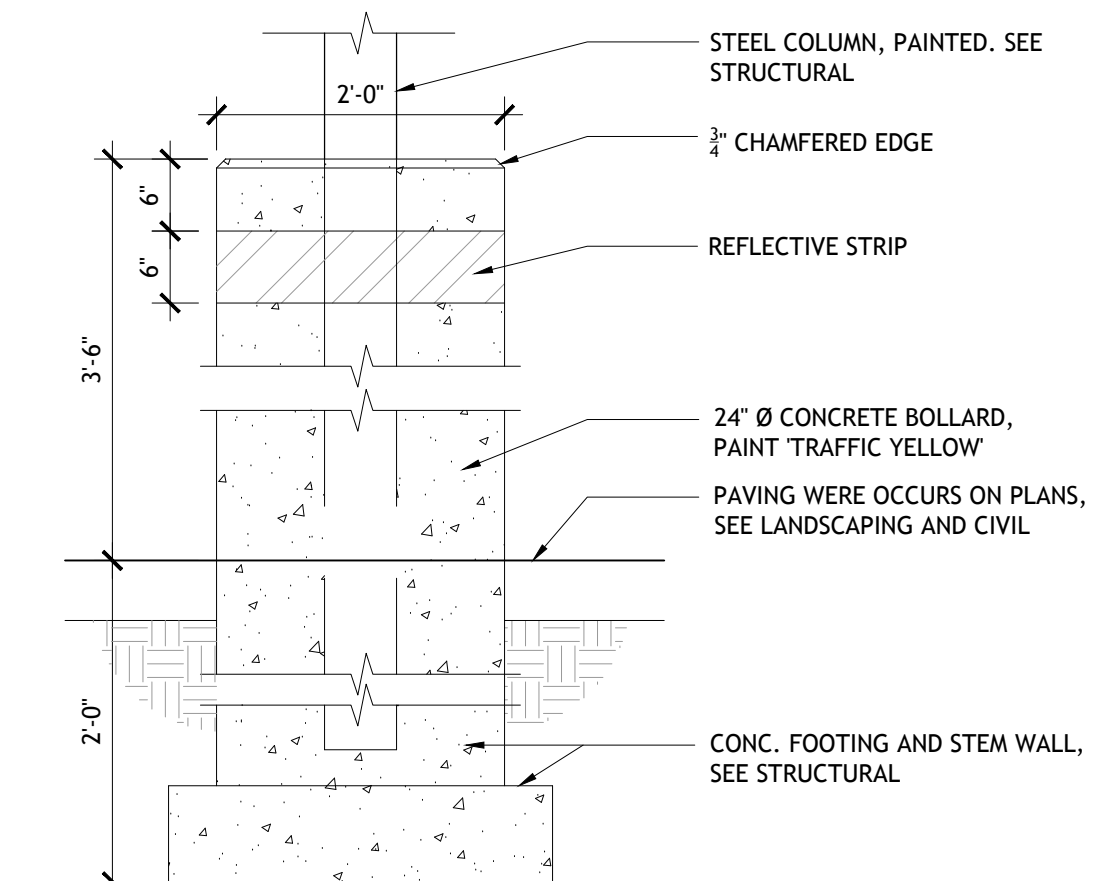
1 Floor Plan - Main Level

SCALE: 1/8" = 1'-0"



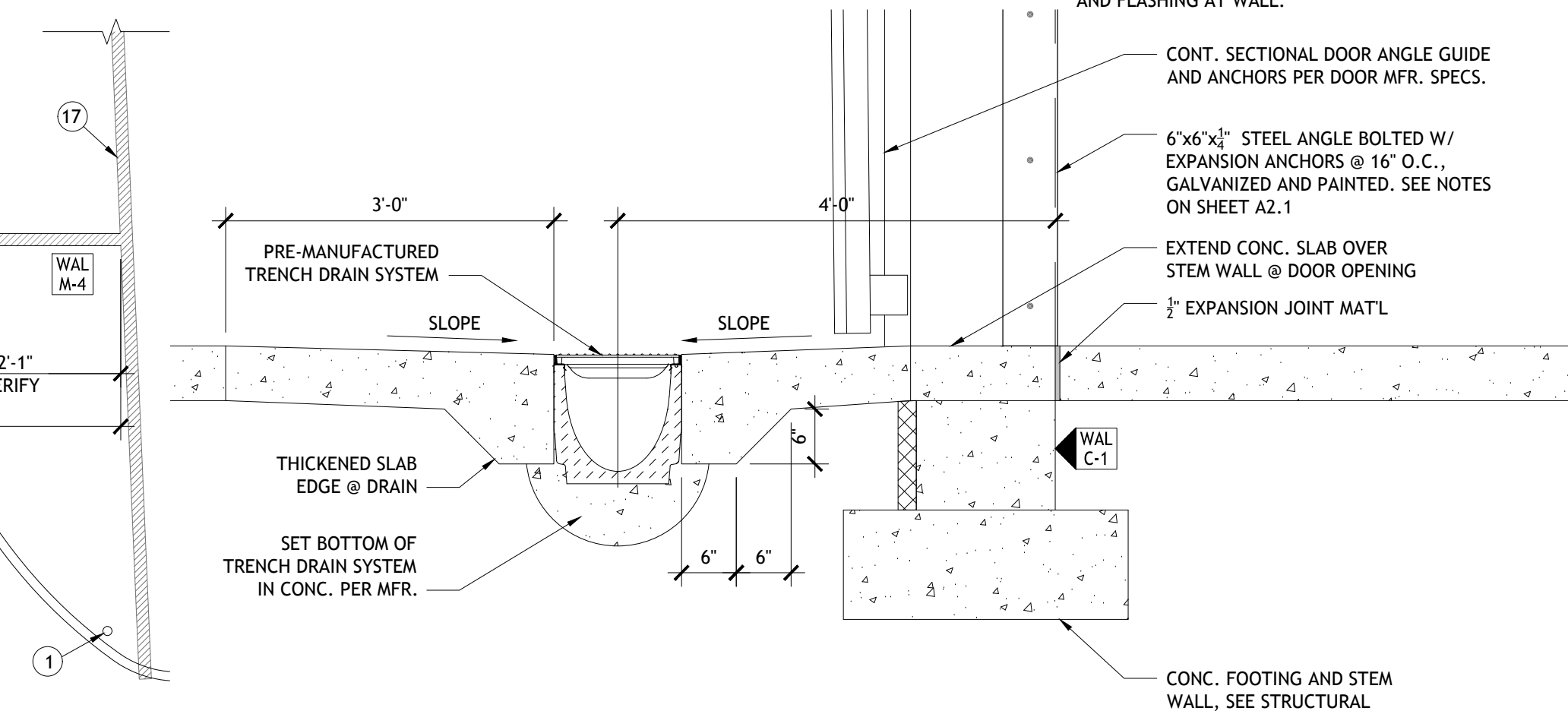
2 Bollard @ High-Lift Sectional Door

SCALE: 3/4" = 1'-0"



3 Bollard @ Canopy Column ALT#3

SCALE: 3/4" = 1'-0"



4 Trench Drain @ High-Lift Sectional Door

SCALE: 3/4" = 1'-0"

General Notes

- REFER TO SCHEDULE SHEETS A0.1 THROUGH A0.6 FOR INFORMATION REGARDING WALLS, DOORS AND WINDOWS.
- ALL FURNITURE N.I.C.

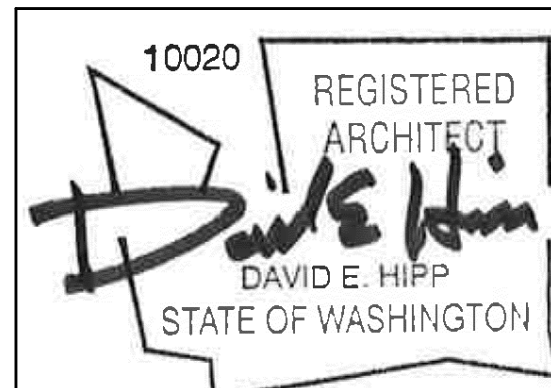
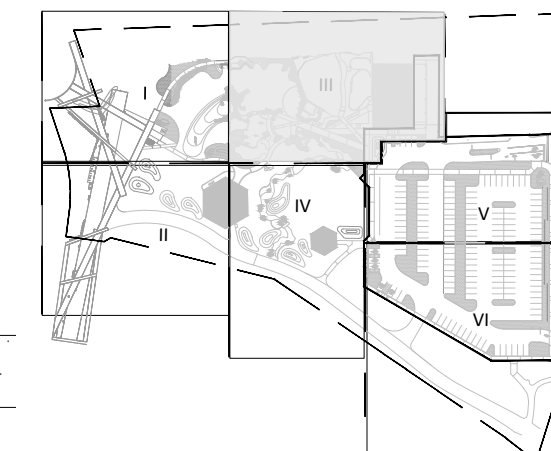
Keyed Notes

- 6" CONC. FILLED BOLLARD W/ PLASTIC COVER, SEE DETAIL 2/A2.1
- FLOOR DRAINS CONNECT TO STORMWATER SYSTEM, SEE MECHANICAL AND CIVIL
- SLOPED FLOOR AREA ($\frac{1}{8}$ "/FT) W/ TRENCH DRAIN, SEE DETAIL 4/A2.1
- DRINKING FOUNTAIN, SEE MECHANICAL
- UTILITY SINK, SEE MECHANICAL
- EYEWASH / SHOWER, SEE MECHANICAL
- COLUMN LOCATION W/ 24" CONC. BOLLARD BASE. SEE STRUCTURAL AND DETAIL 3/A2.1
- ELECTRICAL PANELS, SEE ELECTRICAL
- STEEL PIPE RAILING, GALVANIZED. SEE DETAIL 3/A7.2
- REMOVABLE RAIL SECTION
- PREFINISHED METAL LOCKERS (12x18x36)
- DRY FOOD STORAGE LOCKERS
- EXTEND WALL TO ROOF DECK
- WASHER / DRYER CONNECTIONS
- SLOPED FLOOR AREA ($\frac{1}{8}$ "/FT) WITH FLOOR DRAIN, SEE STRUCTURAL
- PAINT HOOD, SEE MECHANICAL
- EXISTING SITE WALL
- PRE-FABRICATED METAL MAN GATE, SEE SPECIFICATIONS
- ROOF DRAIN AND OVERFLOW, SEE MECHANICAL. CONNECT TO STORMWATER MITIGATION SYSTEM, SEE CIVIL. DAYLIGHT OVERFLOW DRAIN @ 12" A.F.F. W/ BRASS ESCUTCHEON.
- FIRE EXTINGUISHER CABINET, SEE DETAIL 2/A2.2
- PRE-FABRICATED ROLLING METAL GATE W/ OPERATOR, SEE DETAIL 7/A6.4 AND 8/A6.4/A6.4
- GATE ACCESS KEYPAD MOUNTED ON STEEL POST. VERIFY LOCATION WITH OWNER AND MANUFACTURER. SEE ELECTRICAL
- RETAINING WALL AND RAILING, SEE LANDSCAPE DRAWINGS
- CLEAR OPENING IN WALL, SEE ELEVATIONS
- GAS METER LOCATION, SEE MECHANICAL
- HVAC CONDENSER UNIT LOCATION, SEE MECHANICAL
- BASE BID: GUARD RAILS IN PLACE OF PARTITION WALL FROM TOP OF STAIRS TO EAST WALL.
- ROOF ACCESS LADDER, SEE DETAIL 5/A4.2
- METAL PIPE RAILING VERTICAL CLEARANCE BARRIER UNDER STAIRS PER ANSI 117.1 SECT 307.4. SEE ELEVATION 7/A7.1

Alternates List

- ALTERNATE #2: CONCRETE RAMP/WALL @ WEST SIDE OF BUILDING
- ALTERNATE #3: CREW ROOM AND ASSOCIATED OFFICE WALLS, RESTROOM WALLS, DOORS AND FINISHES.
- ALTERNATE #4: VEHICLE CANOPY, INCLUDING FOUNDATIONS, STRUCTURE, ROOFING AND FLASHING AT WALL.

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 2.1
PR: 14 OF: 32	REVISION NO.:

FILE NAME:

BY	REVISIONS	DATE

B W A	BERNARDO WILLS
ARCHITECTS PC	

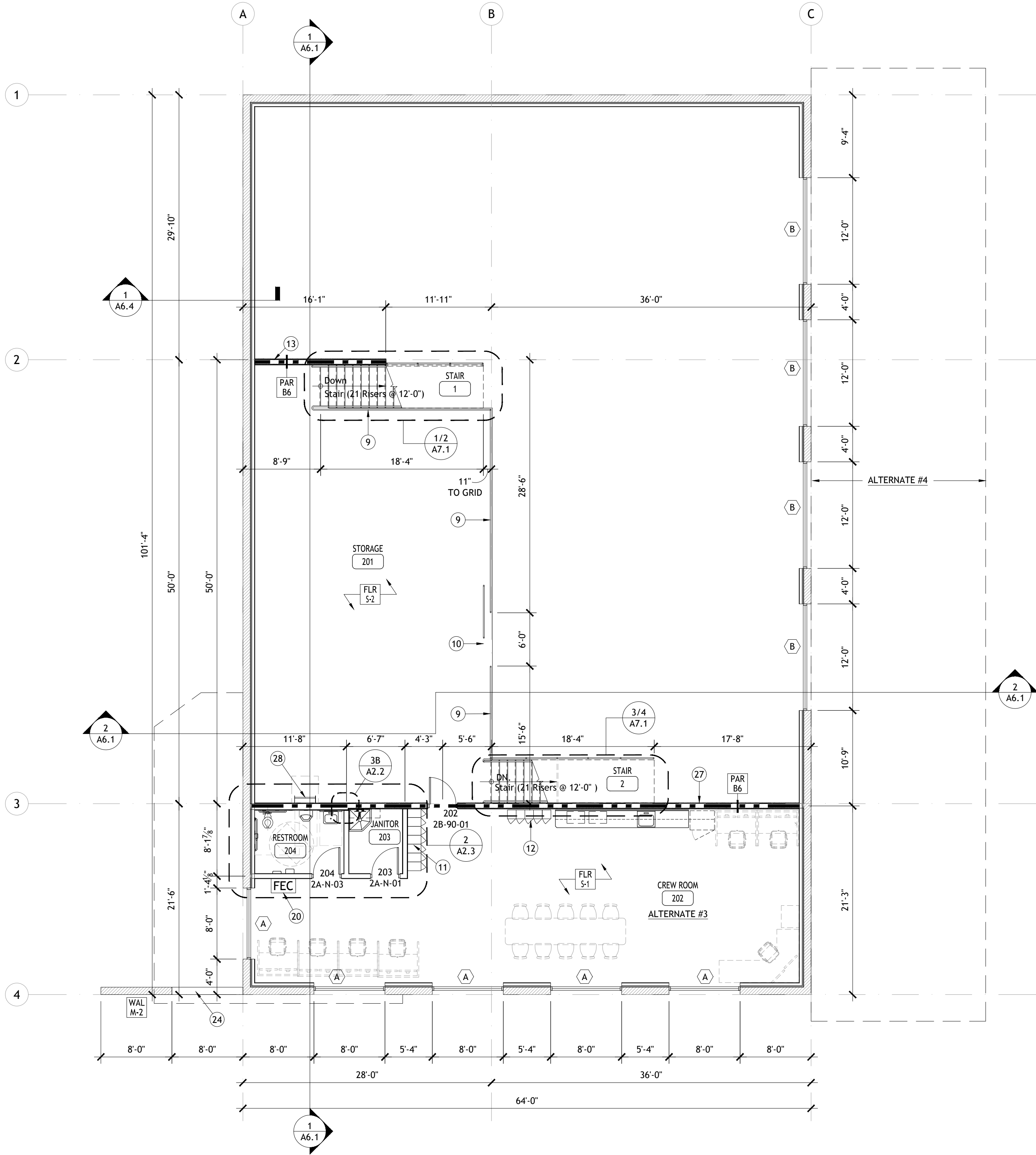
LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'
ELEVATION	1734.64' @ CAP #CP9
CBM NO.	43N, 44W NAVD 88
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
3.15.19	DRAWN - CLK
3.15.19	DESIGNED - DH
3.15.19	CHECKED -
3.15.19	APPROVED -



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	MAIN LEVEL FLOOR PLAN 7.3.2019
DATE:	Jun 28, 2019 - 9:06am by: ckilmer



1 Floor Plan - Second Level

SCALE: 1/8" = 1'-0"

BY	REVISIONS	DATE

B W A	BERNARDO WILLS
ARCHITECTS PC	

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
3.15.19	DRAWN - CLK
3.15.19	DESIGNED - DH
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

General Notes

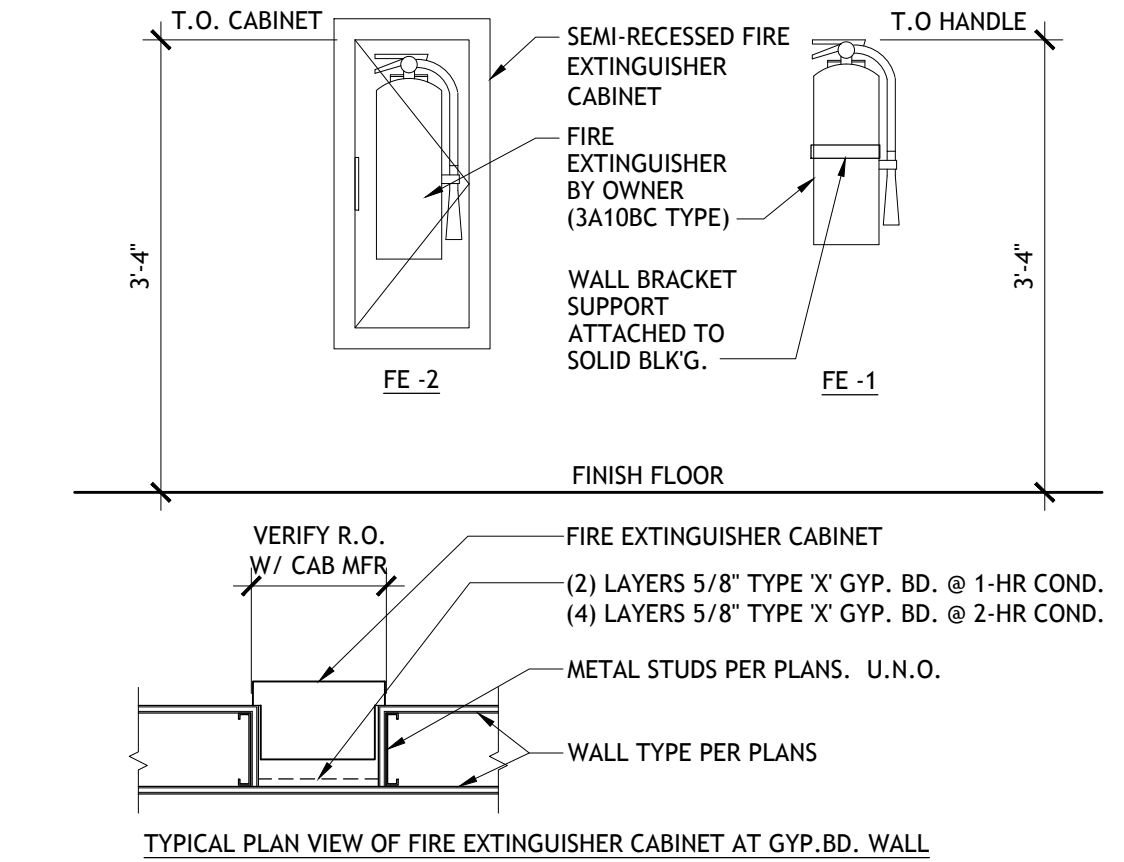
- REFER TO SCHEDULE SHEETS A0.1 THROUGH A0.6 FOR INFORMATION REGARDING WALLS, DOORS AND WINDOWS.
- ALL FURNITURE N.I.C.

Keyed Notes

- 6" CONC. FILLED BOLLARD W/ PLASTIC COVER, SEE DETAIL 2/A2.1
- FLOOR DRAINS CONNECT TO STORMWATER SYSTEM, SEE MECHANICAL AND CIVIL
- SLOPED FLOOR AREA ($\frac{1}{8}$ "/FT) W/ TRENCH DRAIN, SEE DETAIL 4/A2.1
- DRINKING FOUNTAIN, SEE MECHANICAL
- UTILITY SINK, SEE MECHANICAL
- EYEWASH / SHOWER, SEE MECHANICAL
- COLUMN LOCATION W/ 24" CONC. BOLLARD BASE. SEE STRUCTURAL AND DETAIL 3/A2.1
- ELECTRICAL PANELS, SEE ELECTRICAL
- STEEL PIPE RAILING, GALVANIZED. SEE DETAIL 3/A7.2
- REMOVABLE RAIL SECTION
- PREFINISHED METAL LOCKERS (12x18x36)
- DRY FOOD STORAGE LOCKERS
- EXTEND WALL TO ROOF DECK
- WASHER / DRYER CONNECTIONS
- SLOPED FLOOR AREA ($\frac{1}{8}$ "/FT) WITH FLOOR DRAIN, SEE STRUCTURAL
- PAINT HOOD, SEE MECHANICAL
- EXISTING SITE WALL
- PRE-FABRICATED METAL MAN GATE, SEE SPECIFICATIONS
- ROOF DRAIN AND OVERFLOW. SEE MECHANICAL. CONNECT TO STORMWATER MITIGATION SYSTEM, SEE CIVIL. DAYLIGHT OVERFLOW DRAIN @ 12" A.F.F. W/ BRASS ESCUTCHEON.
- FIRE EXTINGUISHER CABINET, SEE DETAIL 2/A2.2
- PRE-FABRICATED ROLLING METAL GATE W/ OPERATOR, SEE DETAIL 7/A6.4 AND 8/A6.4/A6.4
- GATE ACCESS KEYPAD MOUNTED ON STEEL POST, SEE ELECTRICAL
- RETAINING WALL AND RAILING, SEE LANDSCAPE DRAWINGS
- CLEAR OPENING IN WALL, SEE ELEVATIONS
- GAS METER LOCATION, SEE MECHANICAL
- HVAC CONDENSER UNIT LOCATION, SEE MECHANICAL
- BASE BID: GUARD RAILS IN PLACE OF PARTITION WALL FROM TOP OF STAIRS TO EAST WALL.
- ROOF ACCESS LADDER, SEE DETAIL 5/A4.2
- METAL PIPE RAILING VERTICAL CLEARANCE BARRIER UNDER STAIRS PER ANSI 117.1 SECT 307.4. SEE ELEVATION 7/A7.1

Alternates List

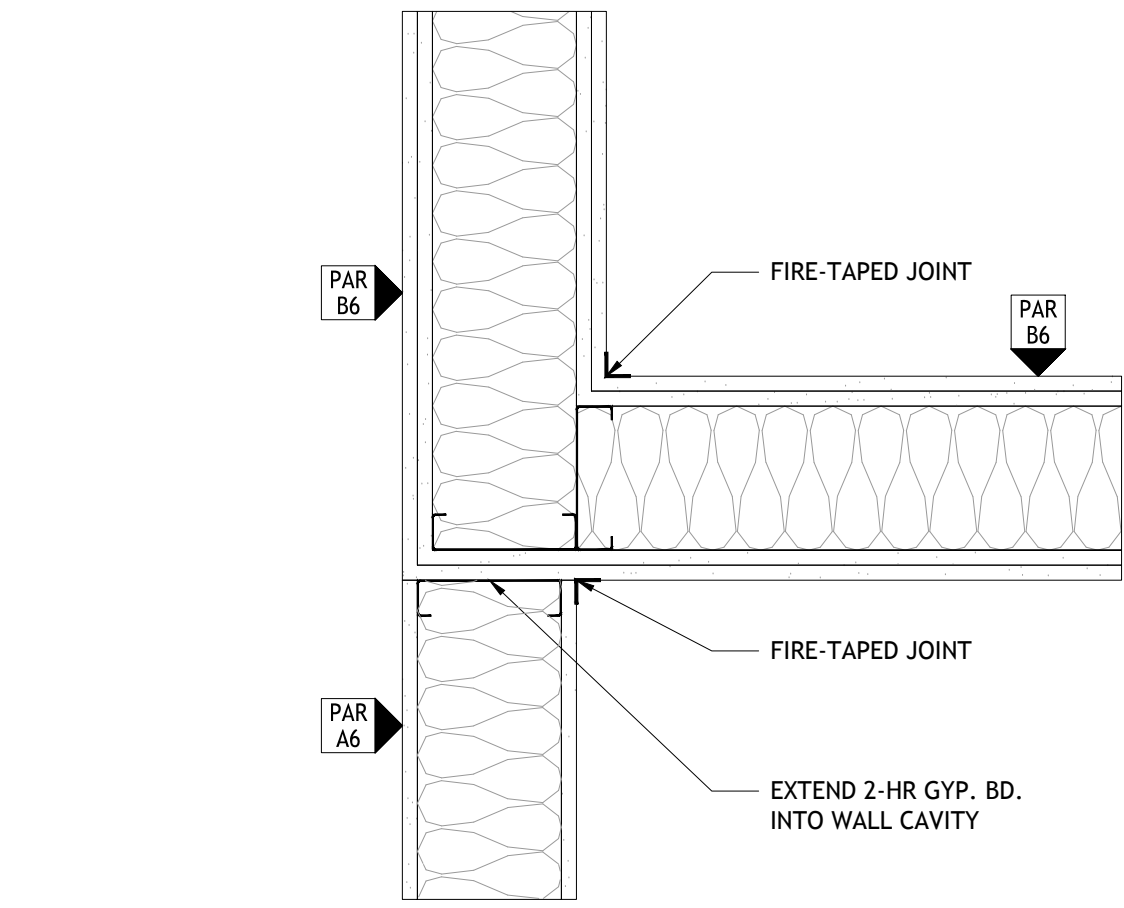
- ALTERNATE #2:** CONCRETE RAMP/WALL @ WEST SIDE OF BUILDING
- ALTERNATE #3:** CREW ROOM AND ASSOCIATED OFFICE WALLS, RESTROOM WALLS, DOORS AND FINISHES.
- ALTERNATE #4:** VEHICLE CANOPY, INCLUDING FOUNDATIONS, STRUCTURE, ROOFING AND FLASHING AT WALL.



2 Fire Extinguisher Cabinet

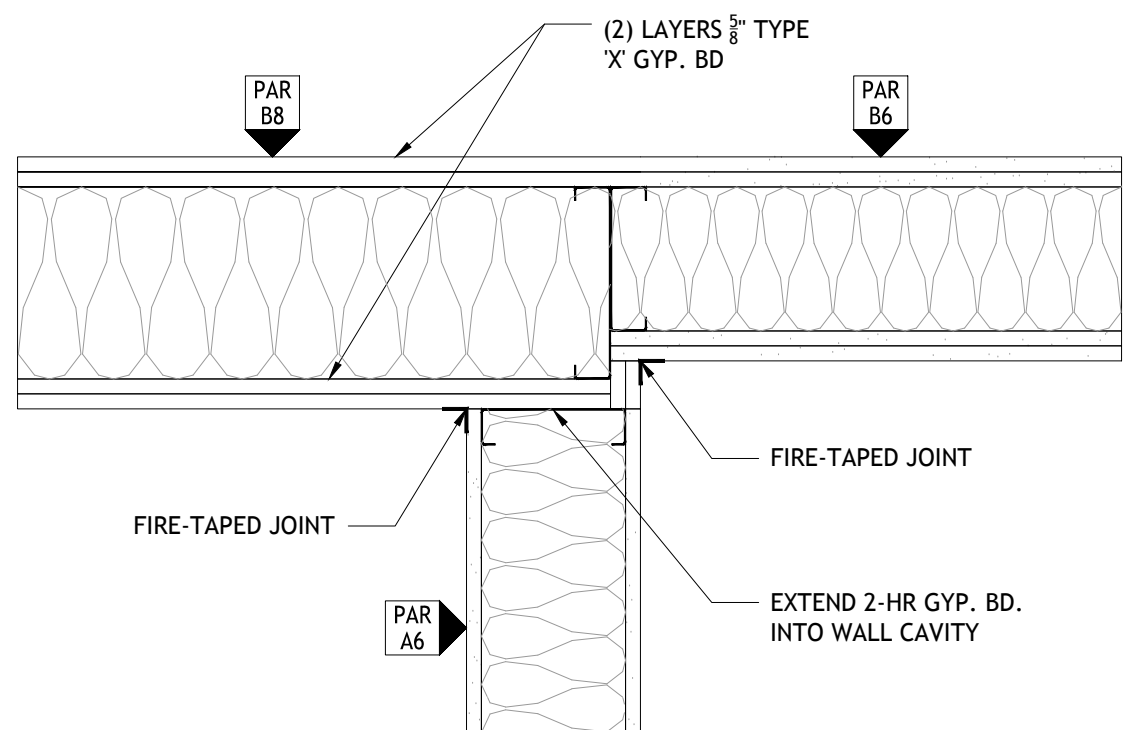
SCALE: 3/4" = 1'-0"

x08-200 D-100 EQUIP



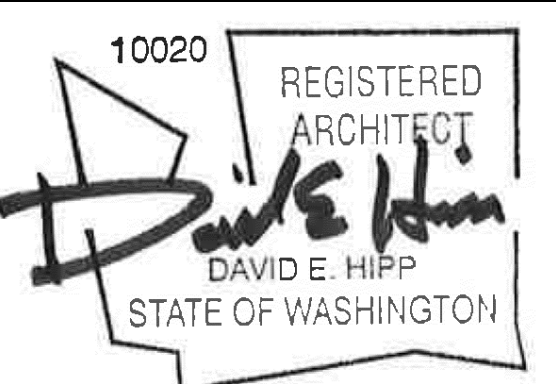
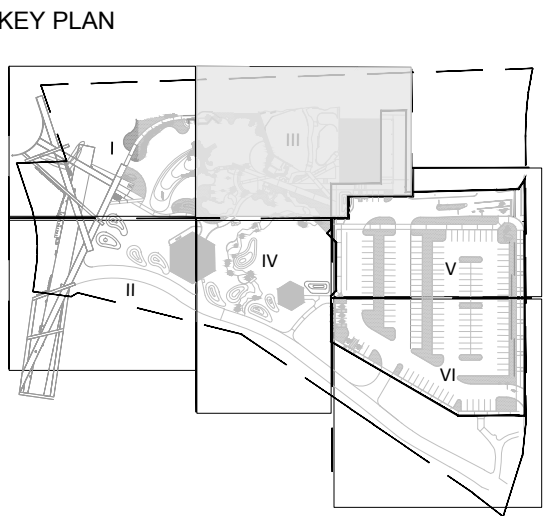
3A Intersection A @ 2-HR Rated Wall

SCALE: 1-1/2" = 1'-0"

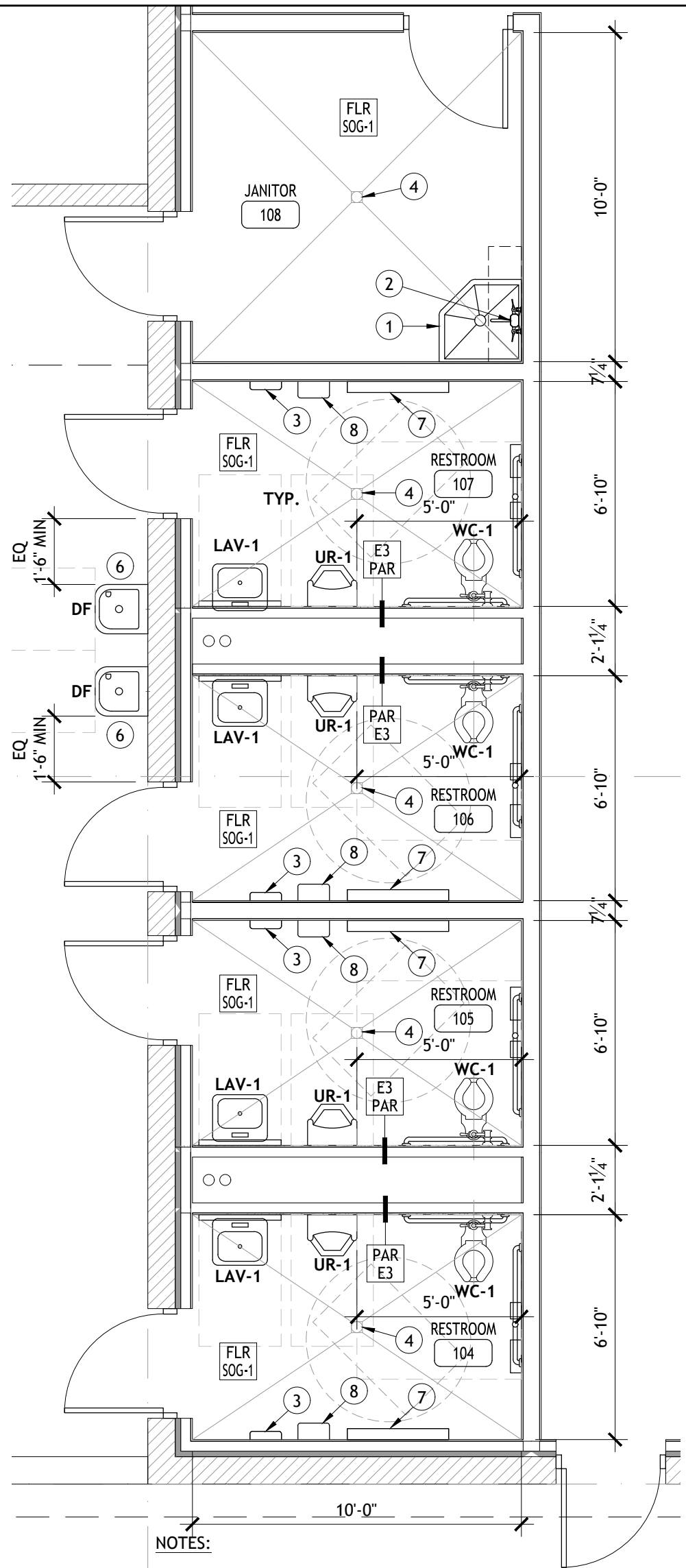


3B Intersection B @ 2-HR Rated Wall

SCALE: 1-1/2" = 1'-0"

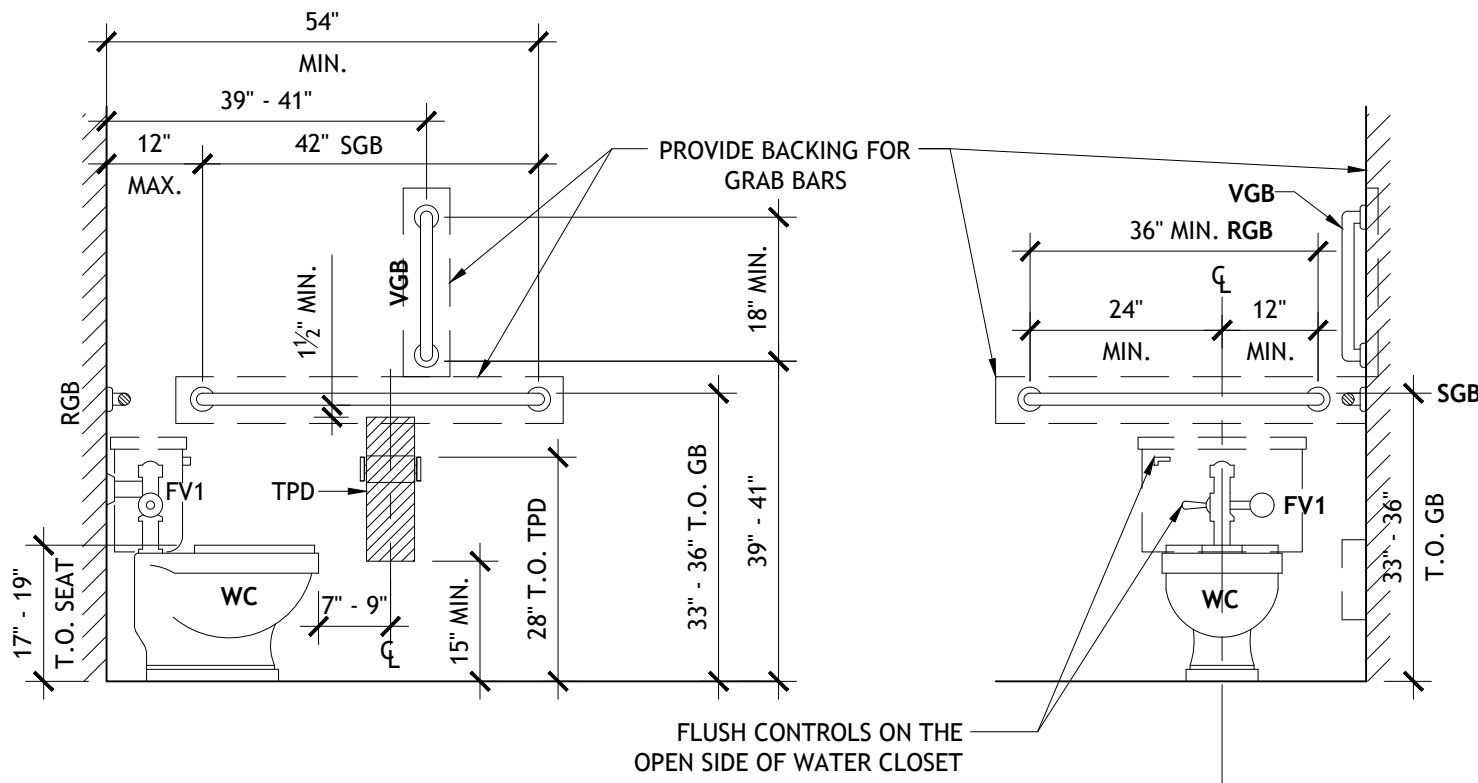
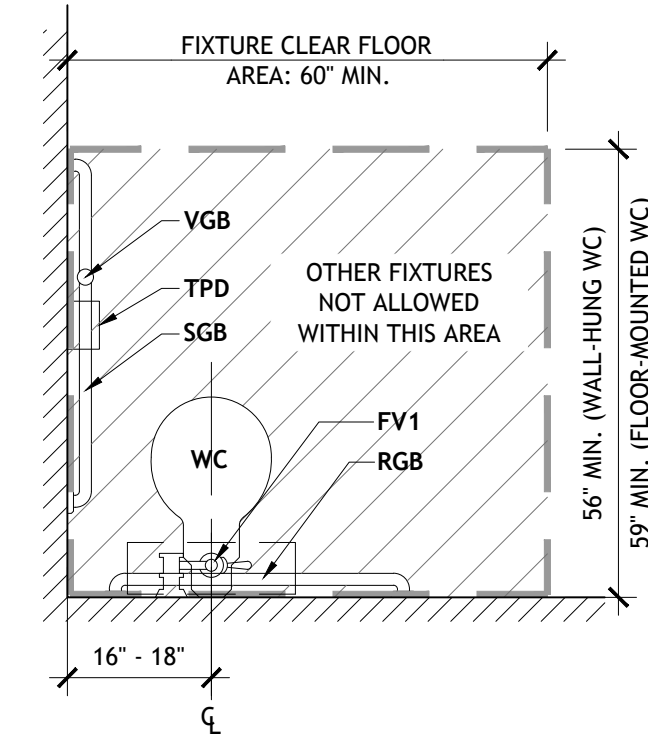


DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT: PARK	
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 2.2
PR: 15 OF 32	REVISION NO.:
FILE NAME:	



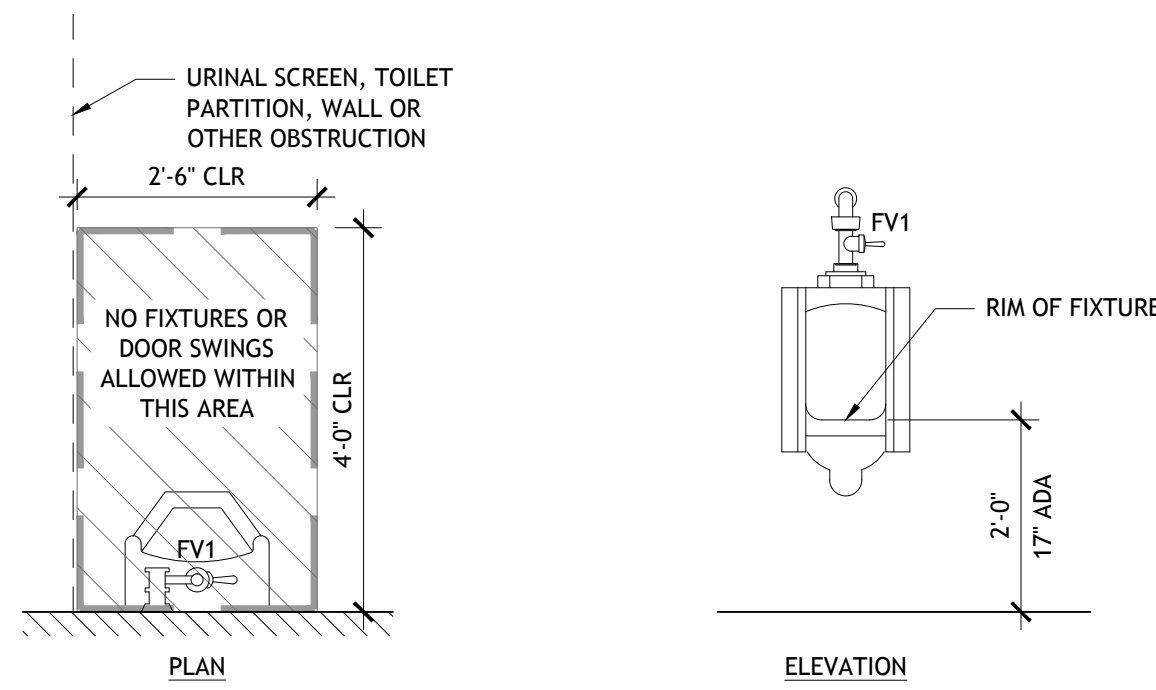
WC-1 Water Closet-01: Accessible Toilet

SCALE: 1/2" = 1'-0"



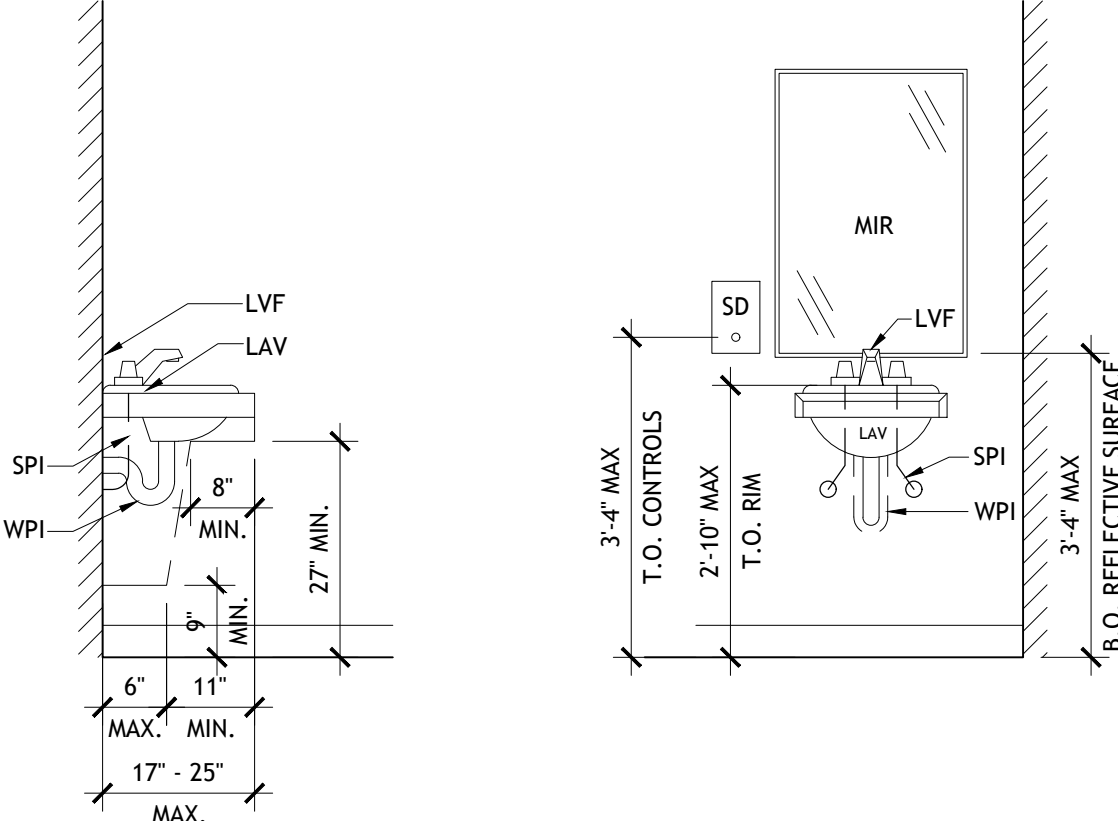
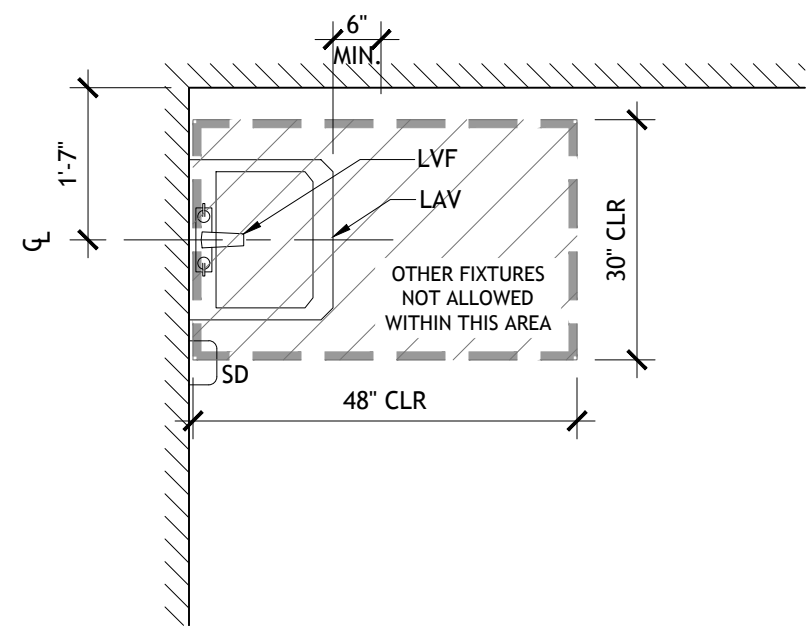
UR Urinal - Accessible

SCALE: 1/2" = 1'-0"



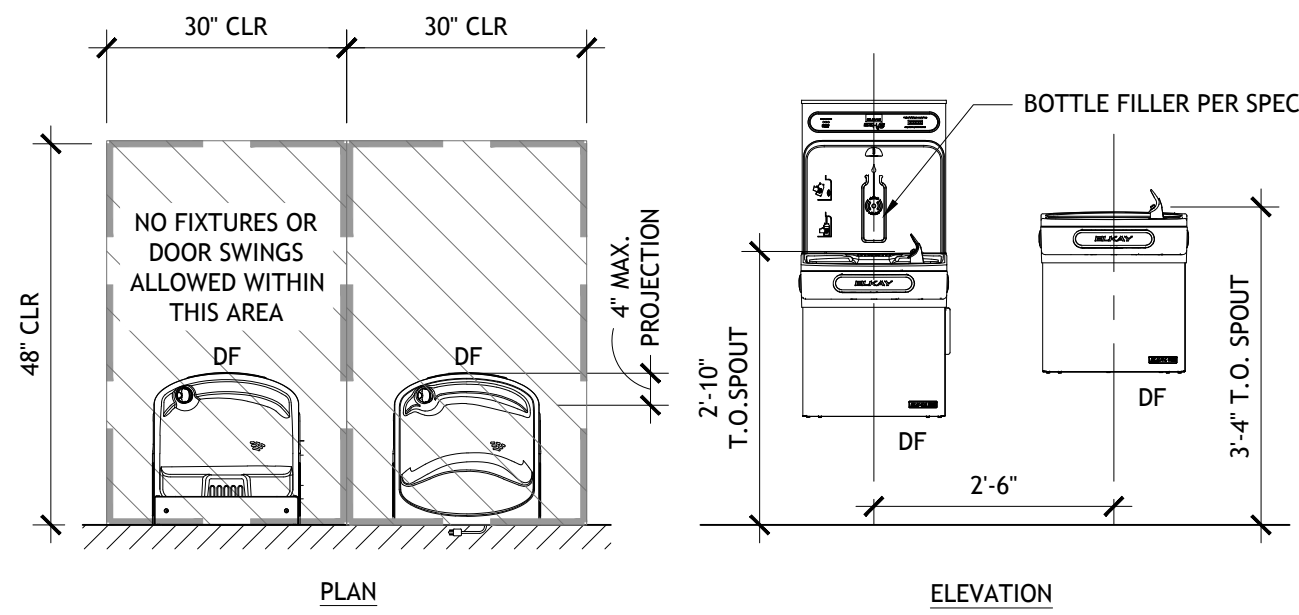
LAV-1 Accessible Lavatory

SCALE: 1/2" = 1'-0"



DF Drinking Fountain - Accessible

SCALE: 1/2" = 1'-0"



General Notes

- REFER TO FINISH PLAN FOR INTERIOR ELEVATIONS AND FINISHES.

Keyed Notes

- FLOOR MOUNTED MOP SINK
- MOP FAUCET UNDER RACK AND SHELF
- WASTE RECEPTACLE
- FLOOR DRAIN W/ SLOPED FLOOR ($\frac{1}{8}$ "/FT)
- 12Wx18x36H METAL LOCKERS ON 6" PLATFORM, SEE DETAIL 3/AI 1.3
- DRINKING FOUNTAIN
- BABY CHANGING STATION
- ELECTRIC HAND DRYER

Fixture Legend

- | | |
|-------|--|
| BCS | BABY CHANGING STATION |
| DF | DRINKING FOUNTAIN |
| FD | FLOOR DRAIN |
| FV-1 | FLUSH VALVE |
| LAV | LAVATORY |
| LVF | LAVATORY FAUCET |
| MIR | MIRROR |
| PTDWR | PAPER TOWEL DISPENSER / WASTE RECEPTACLE |
| RGB | REAR GRAB BAR |
| SD | SOAP DISPENSER |
| SGB | SIDE GRAB BAR |
| SNK | SINK - RESTROOM |
| TPD | TOILET PAPER DISPENSER |
| UR | URINAL |
| VGB | VERTICAL GRAB BAR |
| WC | WATER CLOSET |
| WPI | WASTE PIPE INSULATION |
| SPI | SUPPLY PIPE INSULATION |

NOTE: PROVIDE TOILET ACCESSORIES AS INDICATED ON MATRIX AND ON TOILET DETAIL DRAWINGS .

Toilet Accessories Responsibility Matrix

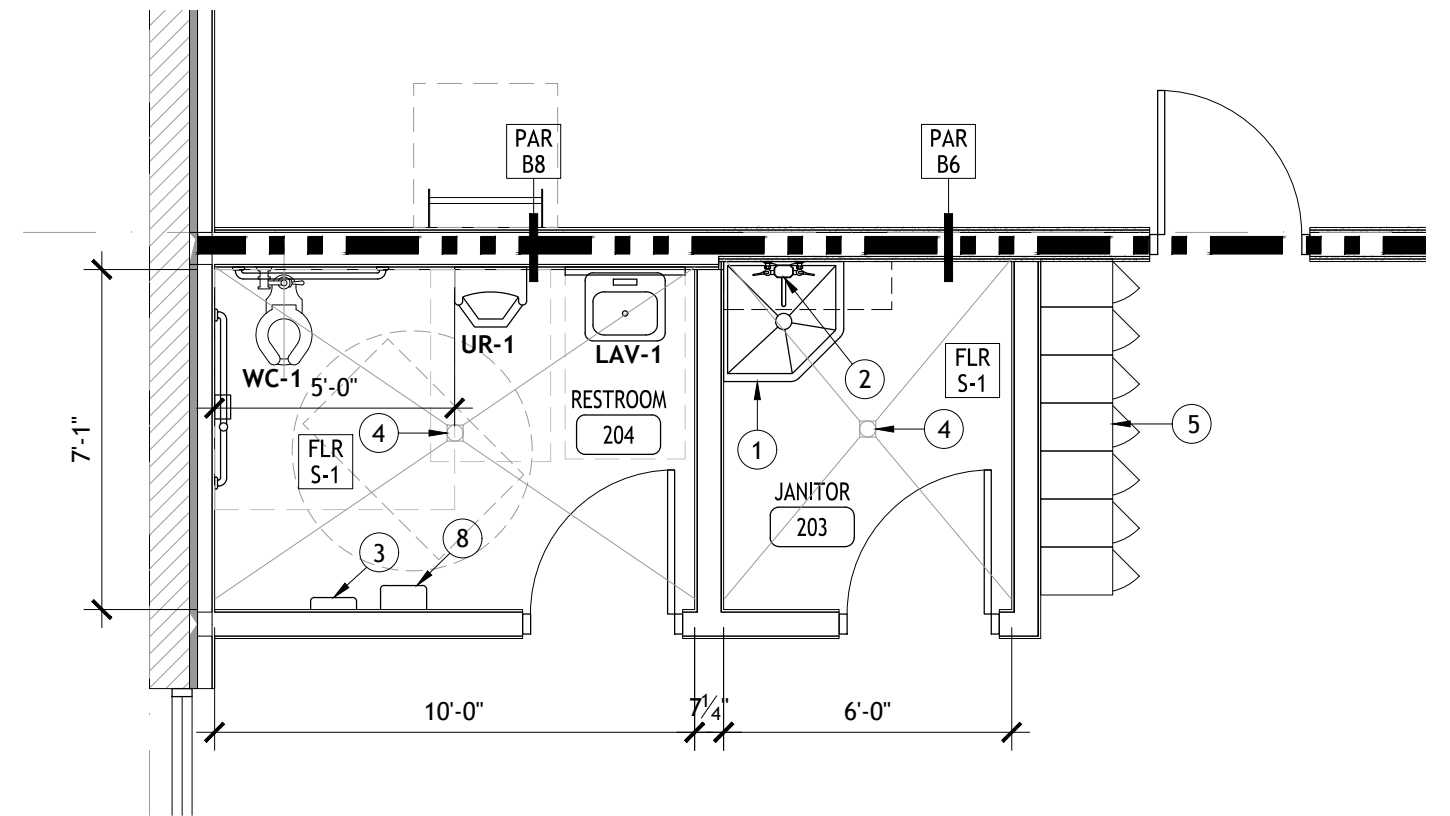
CFCI - CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

OFCl - OWNER FURNISHED / CONTRACTOR INSTALLED

- | | |
|-----------------------------|------|
| A. MIRROR: | CFCI |
| B. TOILET TISSUE DISPENSER: | OFCl |
| C. ELECTRIC HAND DRYER: | CFCI |
| D. LIQUID SOAP DISPENSER: | OFCl |
| E. GRAB BARS: | CFCI |
| F. BABY CHANGING STATION: | CFCI |
| G. WASTE RECEPTACLE: | CFCI |

1 Enlarged Floor Plan - Main Floor Restrooms / Janitor

SCALE: 1/4" = 1'-0"

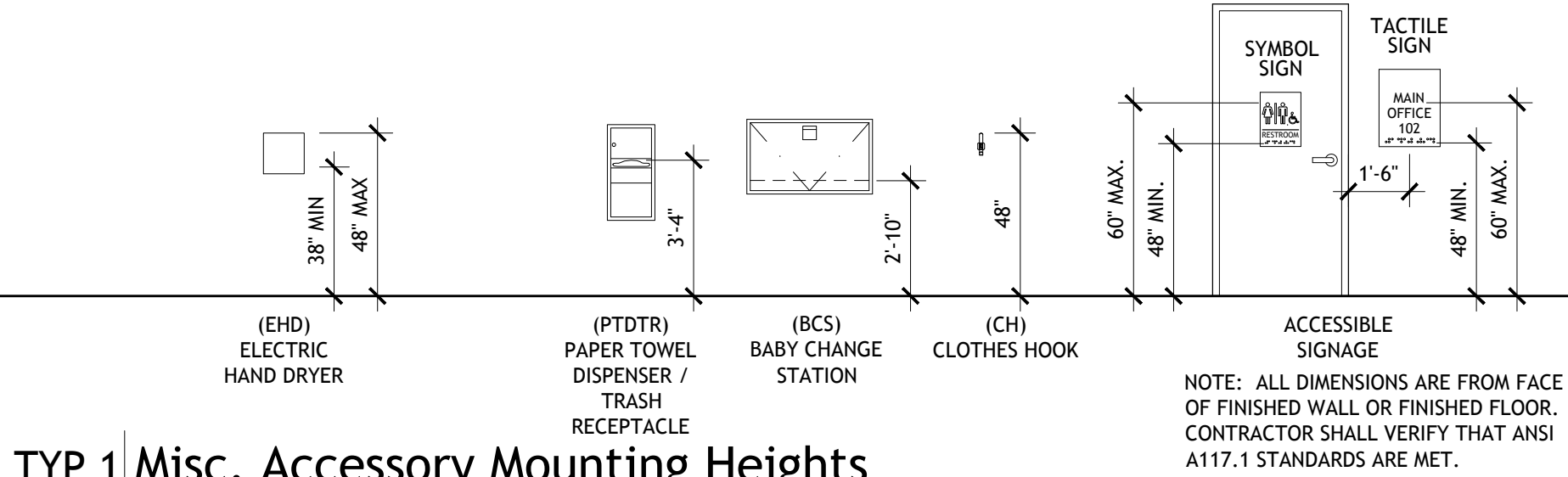


2 Enlarged Floor Plan - 2nd Level - Restroom / Janitor

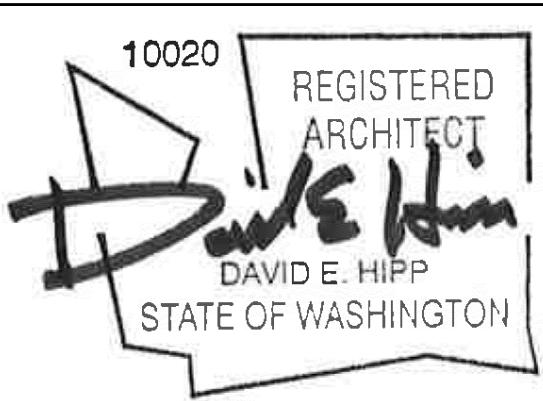
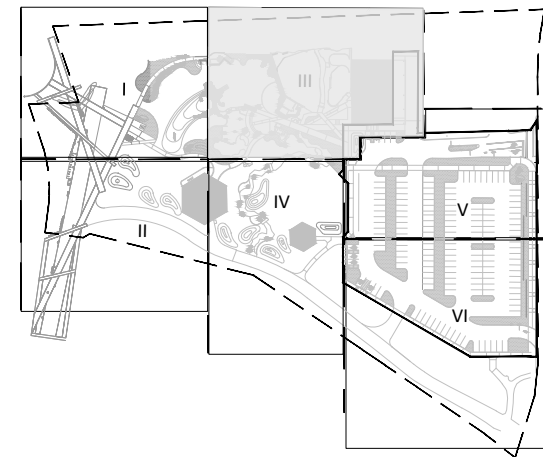
SCALE: 1/4" = 1'-0"

TYP 1 Misc. Accessory Mounting Heights

SCALE: 1/4" = 1'-0"



KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

FILE NAME:

REVISION NO.:

DATE: Jun 25, 2019 - 2:29pm by: ckilmer

B W A BERNARDO WILLS ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84)

NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'

ELEVATION 1734.64' @ CAP #CP9 HORIZONTAL

CBM NO. 43N, 44W VERTICAL

CITY DATUM SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

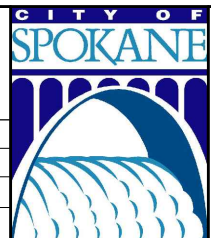
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95

3.15.19 DRAWN - CLK

3.15.19 DESIGNED - DH

CHECKED APPROVED



CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.

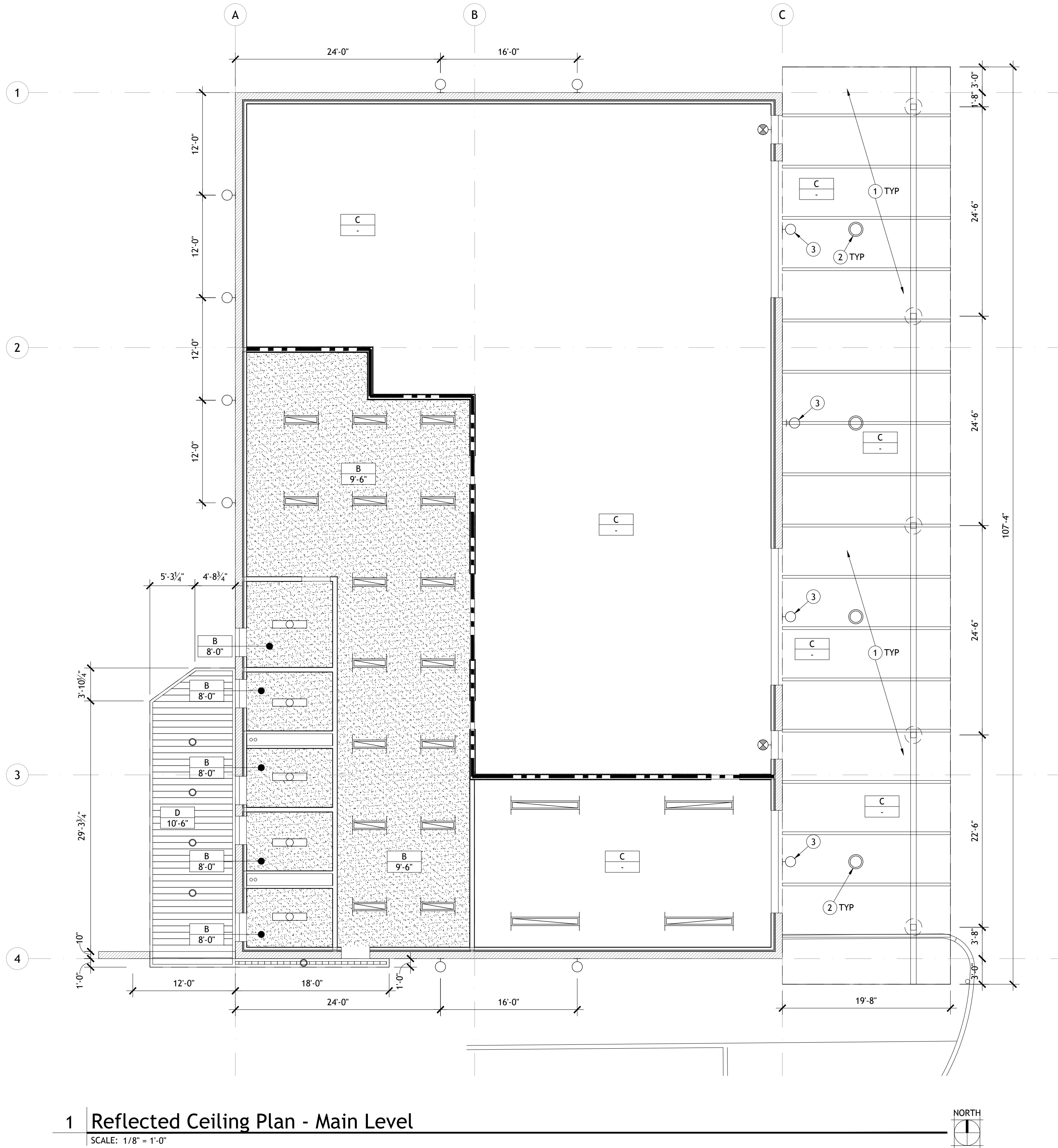
SPOKANE, WASHINGTON 99201-3343

(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET

SHEET TITLE: RESTROOM / JANITOR ENLARGED FLOOR PLAN AND DETAILS

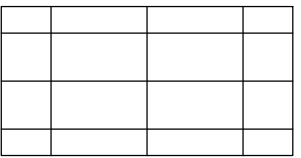
DATE: Jun 25, 2019 - 2:29pm by: ckilmer



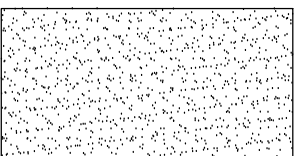
1 Reflected Ceiling Plan - Main Level
SCALE: 1/8" = 1'-0"

CEILING LEGEND

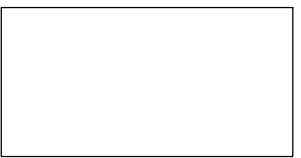
CEILING MATERIAL TYPE
CEILING HEIGHT



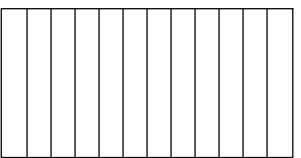
A 2X4 LAY-IN CEILING GRID AND ACOUSTICAL TILE
• PROVIDE SUSPENDED FRAMING AS REQUIRED



B GWB CEILING OR SOFFIT
• PROVIDE SUSPENDED FRAMING AS REQUIRED



C OPEN TO STRUCTURE ABOVE

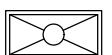


D PREFINISHED METAL SOFFIT PANEL

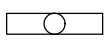
LIGHT FIXTURE LEGEND



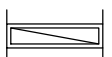
RECESSED 2X4 LED LIGHT FIXTURE



SURFACE MOUNT 2X4 LED LIGHT FIXTURE



RECESSED 1X4 LED LIGHT FIXTURE



CHAIN HUNG 4' STRIP LIGHT FIXTURE



CHAIN HUNG 8' STRIP LIGHT FIXTURE



SURFACE MOUNTED DOWN LIGHT FIXTURE



RECESSED INTERIOR DOWN LIGHT FIXTURE



WALL MOUNTED ILLUMINATED EXIT LIGHT FIXTURE



WALL MOUNTED LIGHT FIXTURE

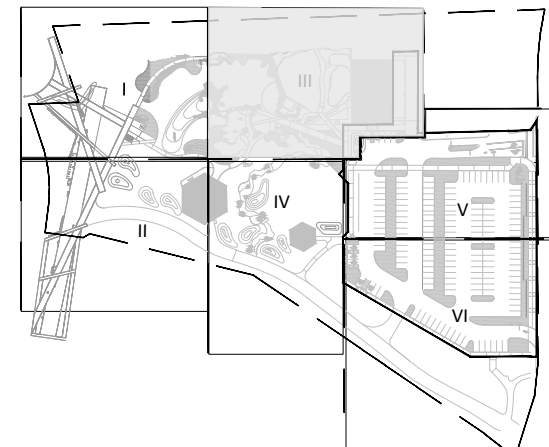
GENERAL RCP NOTES

- SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION SHEETS FOR ADDITIONAL INFORMATION.
- CROSS REFERENCE REFLECTED CEILING PLANS WITH ELECTRICAL AND MECHANICAL. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
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- LIGHT FIXTURES, DIFFUSERS, GRILLES AND CEILING GRIDS ARE TO BE CENTERED BETWEEN WALLS / BEAMS UNLESS OTHERWISE NOTED.
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- VERIFY FIELD CONDITIONS AND LOCATIONS OF ALL PLUMBING, MECHANICAL DUCTS, STRUCTURAL ELEMENTS AND ANY AND ALL OTHER APPLICABLE ITEMS.
- PAINT MECH. GRILLES AND DUCTS IN SOFFITS TO MATCH SOFFIT COLOR.

KEYED NOTES

- 6" x 4" TUBE STEEL RAFTERS @ 6'-0" O.C., PAINTED. SEE STRUCTURAL
- ATTACH LIGHT FIXTURES TO BOTTOM FLUTE OF EXPOSED DECK. RUN CONDUIT WITHIN UPPER FLUTE.
- BASE BID: PROVIDE EXTERIOR WALL PACK LIGHTS. DELETE FOR ALT#4.
- PROVIDE PREFINISHED METAL TRIM AROUND BRACING
- LINE OF SECOND FLOOR BELOW

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 3.1

FILE NAME:

PK: 17 OF 32 REVISION NO.:

DATE: Jun 25, 2019 - 2:29pm by: ckilmer

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

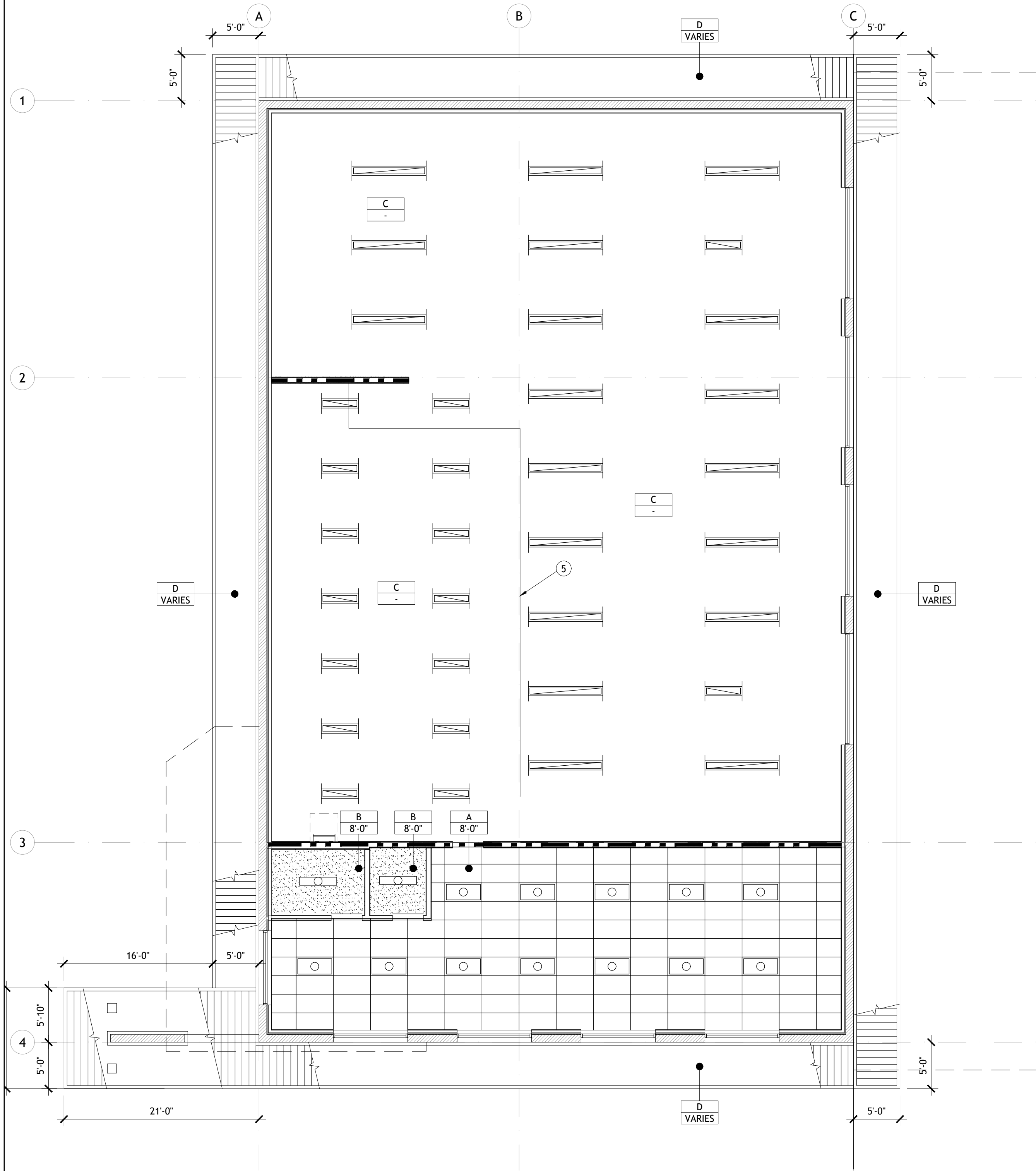
CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
3.15.19	DRAWN CLK
3.15.19	DESIGNED DH
CHECKED	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	MAIN LEVEL REFLECTED CEILING PLAN 7.3.2019
DATE: Jun 25, 2019 - 2:29pm by: ckilmer	



1 Reflected Ceiling Plan - Second Level
SCALE: 1/8" = 1'-0"

BY	REVISIONS	DATE

BWABERNARDO WILLS

ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

3.15.19
3.15.19

DRAWN
DESIGNED

CLK
DH

CITY OF SPOKANE

SPokane

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: SECOND LEVEL
REFLECTED CEILING PLAN
7.3.2019

DATE: Jun 25, 2019 - 2:29pm by: ckilmer

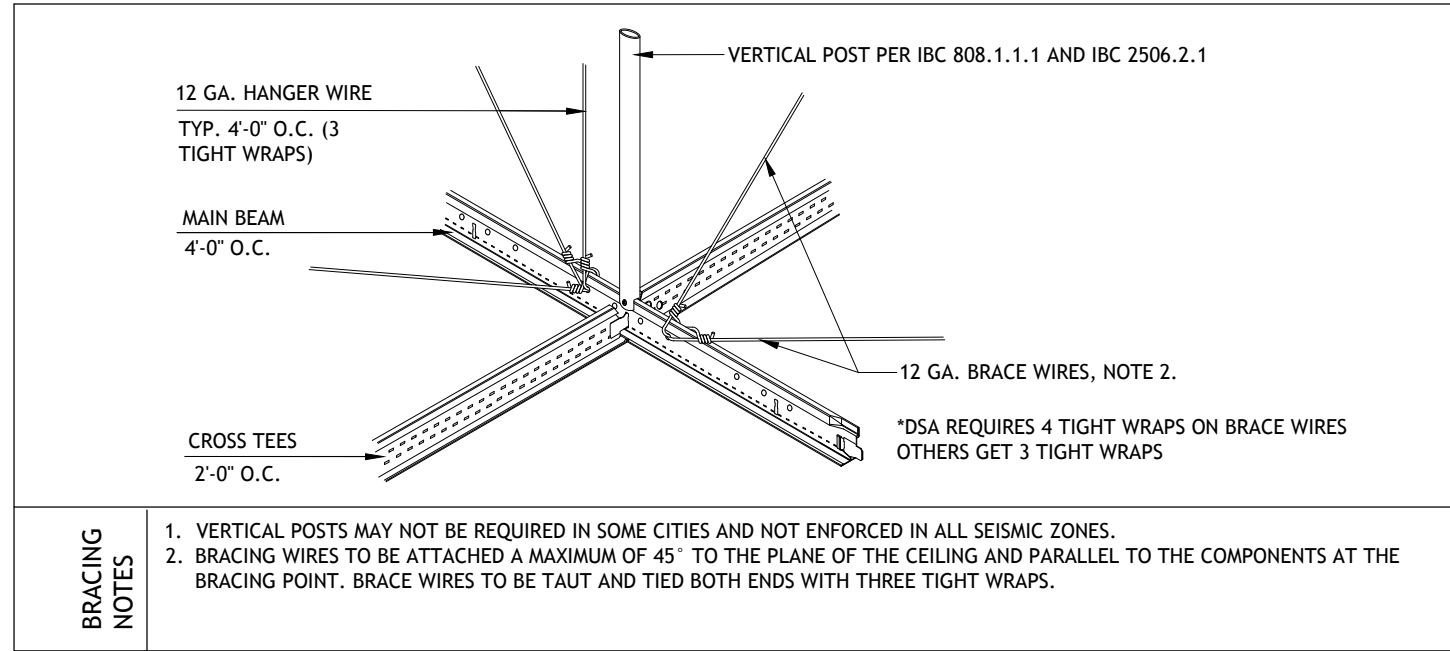
DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

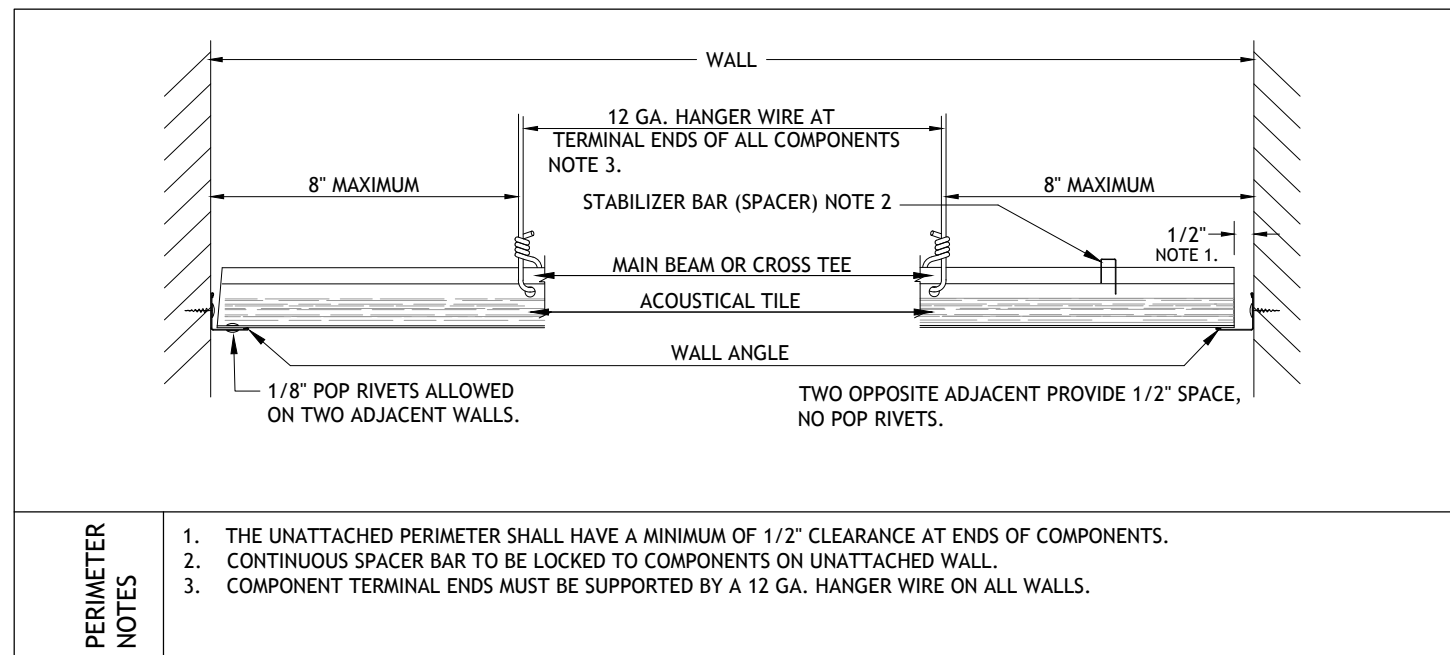
CITY PURCHASING NUMBER

DRAWING NUMBER
A 3.2

FILE NAME:



2 Seismic Bracing - Typical
SCALE: 1/2" = 1'-0"



3 Bracing and Perimeter Details
SCALE: 1/2" = 1'-0"

CEILING LEGEND

CEILING MATERIAL TYPE
CEILING HEIGHT

A

2X4 LAY-IN CEILING GRID AND ACOUSTICAL TILE
• PROVIDE SUSPENDED FRAMING AS REQUIRED

B

GWB CEILING OR SOFFIT
• PROVIDE SUSPENDED FRAMING AS REQUIRED

C

OPEN TO STRUCTURE ABOVE

D

PREFINISHED METAL SOFFIT PANEL

LIGHT FIXTURE LEGEND

RECESSED 2X4 LED LIGHT FIXTURE

SURFACE MOUNT 2X4 LED LIGHT FIXTURE

RECESSED 1X4 LED LIGHT FIXTURE

CHAIN HUNG 4' STRIP LIGHT FIXTURE

CHAIN HUNG 8' STRIP LIGHT FIXTURE

SURFACE MOUNTED DOWN LIGHT FIXTURE

RECESSED INTERIOR DOWN LIGHT FIXTURE

WALL MOUNTED ILLUMINATED EXIT LIGHT FIXTURE

WALL MOUNTED LIGHT FIXTURE

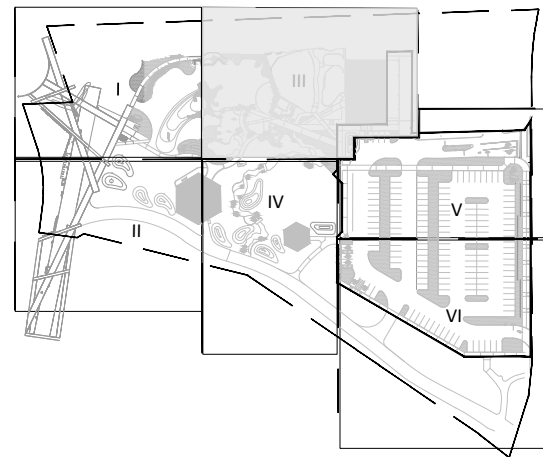
GENERAL RCP NOTES

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KEYED NOTES

- 6" x 4" TUBE STEEL RAFTERS @ 6'-0" O.C., PAINTED. SEE STRUCTURAL
- ATTACH LIGHT FIXTURES TO BOTTOM FLUTE OF EXPOSED DECK. RUN CONDUIT WITHIN UPPER FLUTE.
- BASE BID: PROVIDE EXTERIOR WALL PACK LIGHTS. DELETE FOR ALT#4.
- PROVIDE PREFINISHED METAL TRIM AROUND BRACING
- LINE OF SECOND FLOOR BELOW

KEY PLAN



10020

REGISTERED ARCHITECT

DAVID E. HIPPI

STATE OF WASHINGTON

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 3.2

FILE NAME:

General Notes

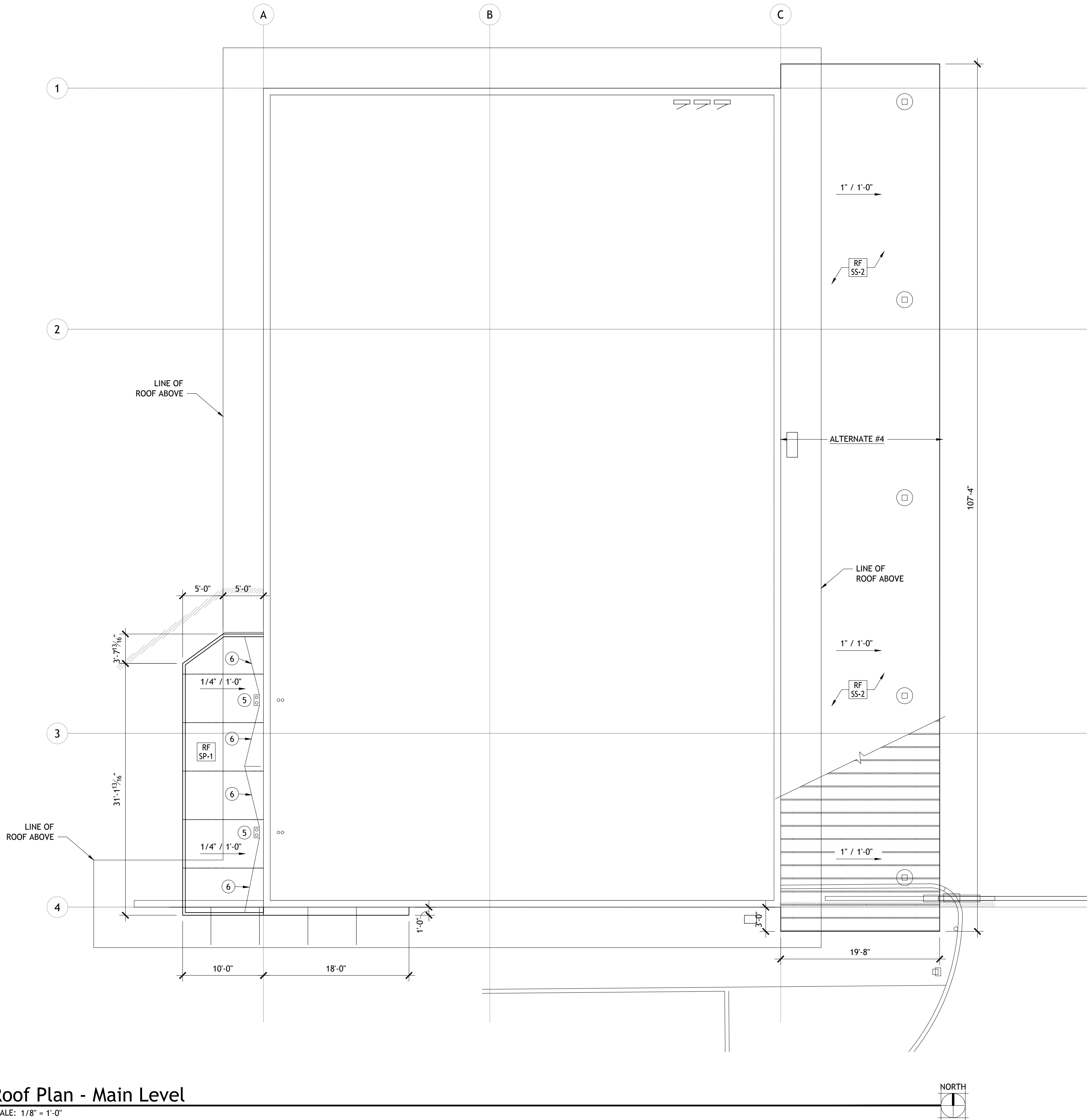
- REFER TO SCHEDULE SHEETS A0.1 THROUGH A0.7 FOR INFORMATION REGARDING WALLS, DOORS AND WINDOWS.
- ALL FURNITURE N.I.C.

Keyed Notes

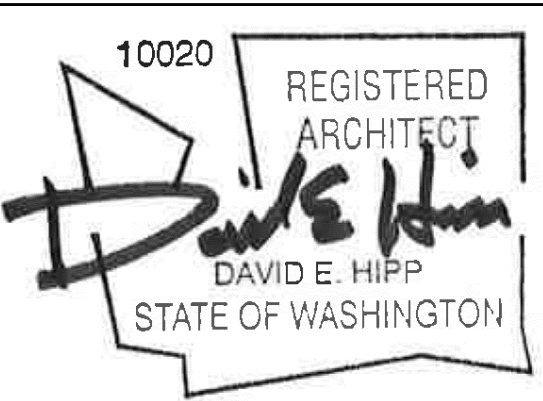
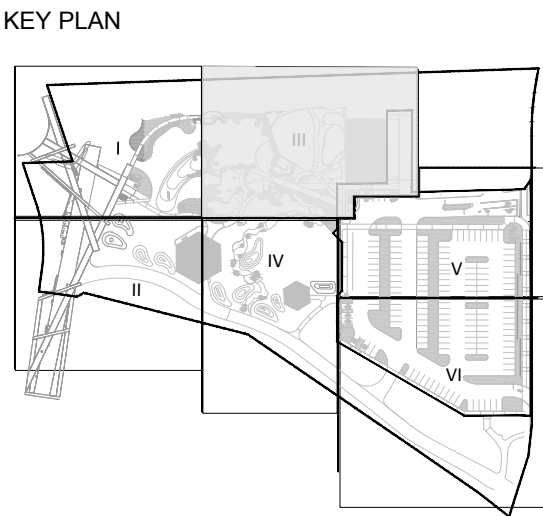
- PRE-FINISHED 5" METAL GUTTER
- PRE-FINISHED 4"x4" METAL DOWNSPOUT
- SNOW GUARDS, SEE DETAIL 1C/A4.2
- ROOF VENT, SEE MECHANICAL
- ROOF DRAIN AND OVERFLOW, SEE 1B/A4.2 AND MECHANICAL
- ROOF CRICKET
- ROOF ACCESS HATCH W/ LADDER POST, SEE DETAIL 5/A4.2
- FALL ARREST ANCHOR

Alternates List

- ALTERNATE #3: CREW ROOM AND ASSOCIATED OFFICE WALLS, RESTROOM WALLS, DOORS AND FINISHES.
- ALTERNATE #4: VEHICLE CANOPY, INCLUDING FOUNDATIONS, STRUCTURE, ROOFING AND FLASHING AT WALL.



1 Roof Plan - Main Level
SCALE: 1/8" = 1'-0"



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 4.1

FILE NAME:

DATE: Jun 25, 2019 - 2:29pm by: ckilmer

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

3.15.19	DRAWN	CLK
3.15.19	DESIGNED	DH
	CHECKED	
	APPROVED	

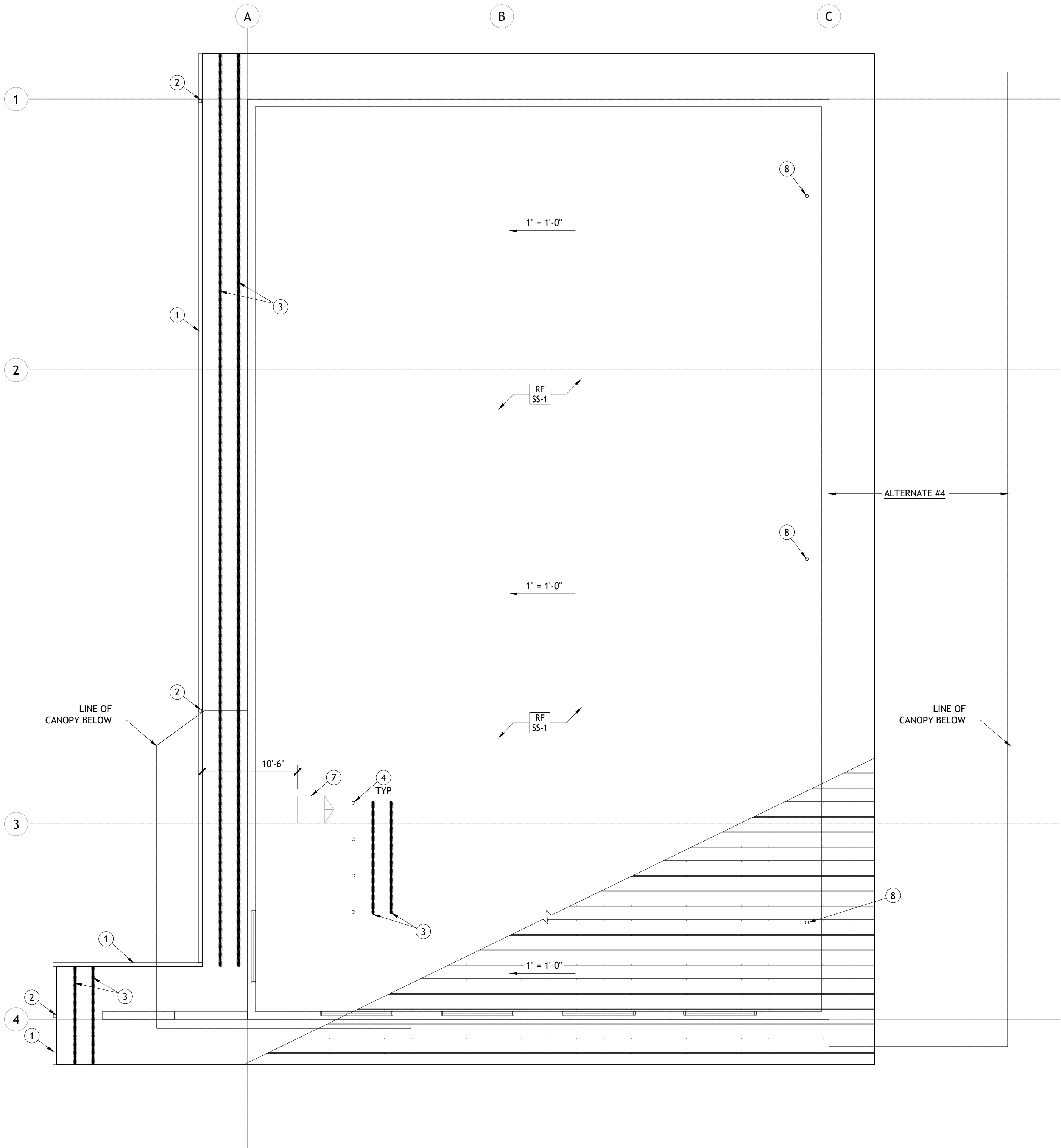


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

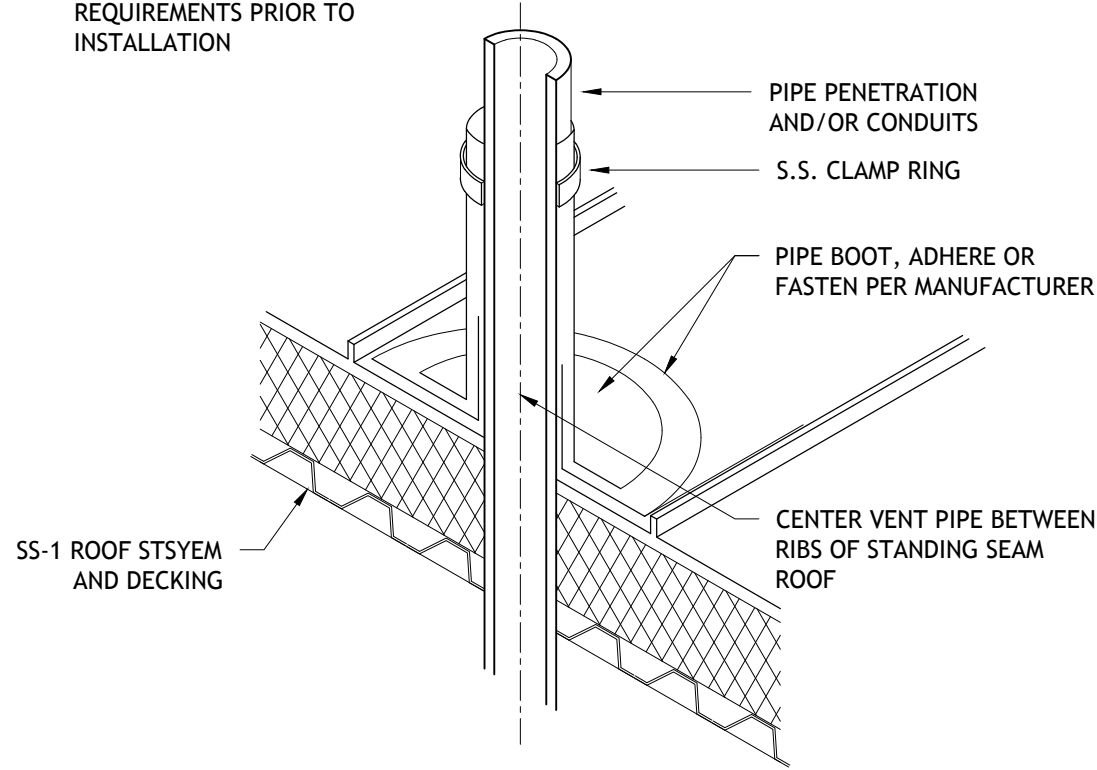
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: MAIN LEVEL
ROOF PLAN
7.3.2019

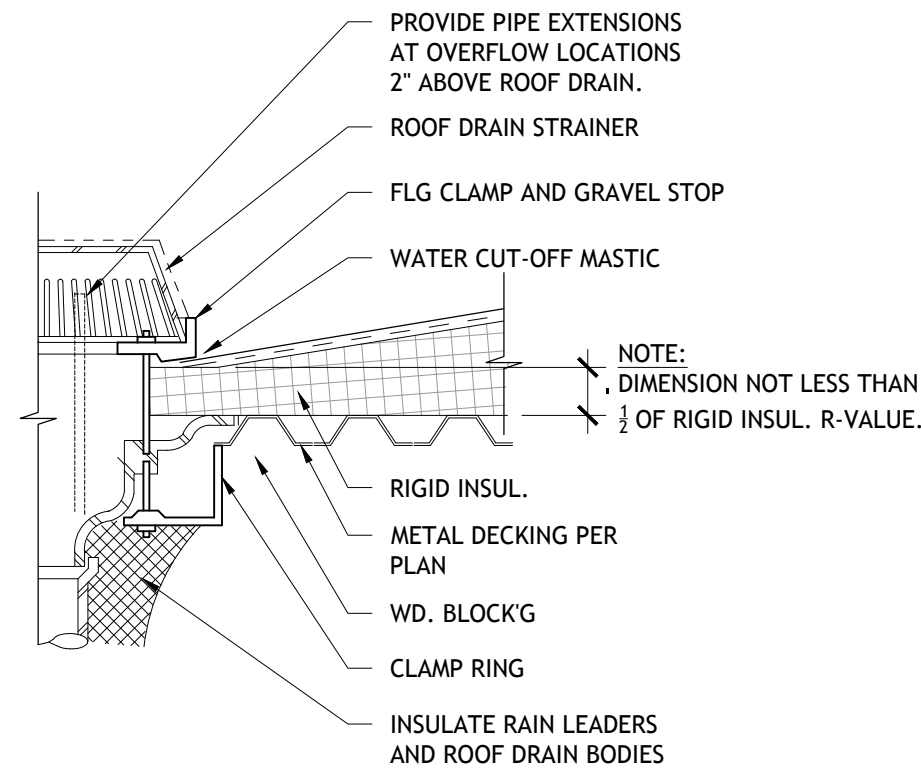


1 Roof Plan - Second Level
SCALE: 1/8" = 1'-0"

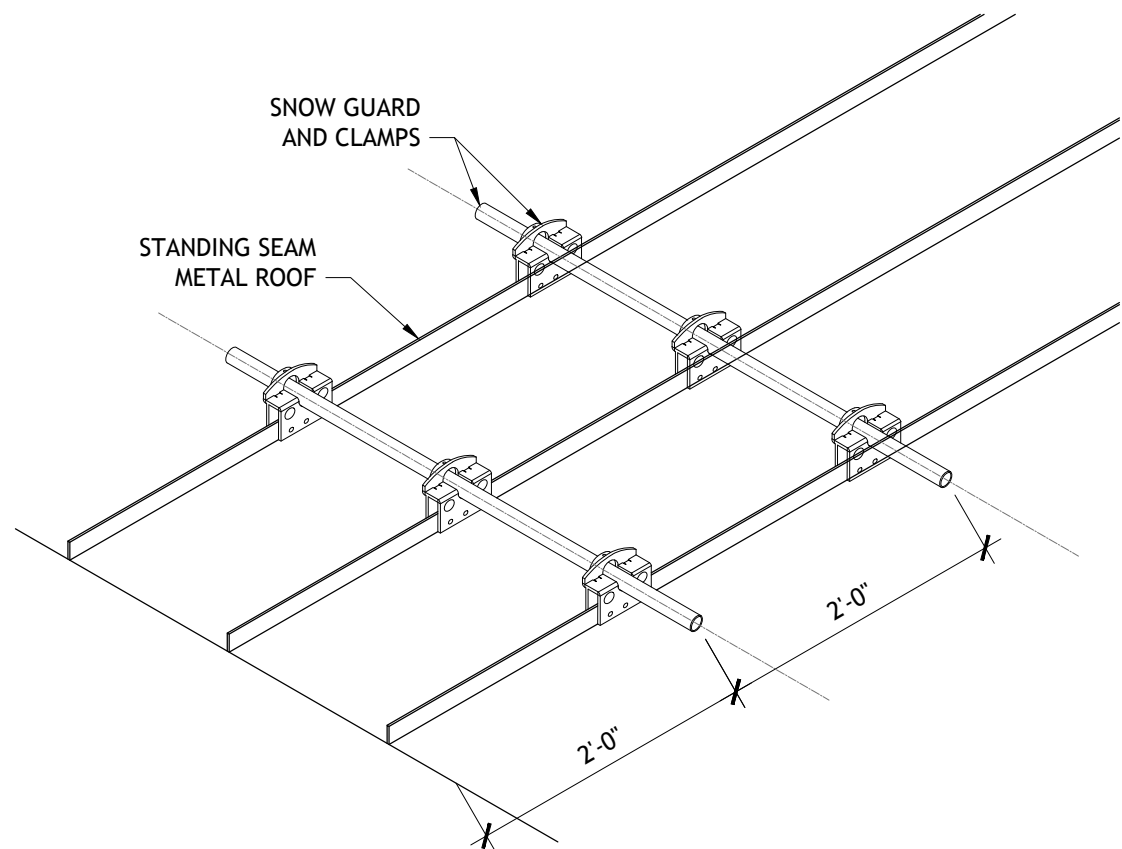
SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION. VERIFY CODE AND MANUFACTURERS REQUIREMENTS PRIOR TO INSTALLATION



2 Typical Pipe Vent
SCALE: NONE



3 Typical Roof Drain
SCALE: NONE



4 Snow Guard @ Standing Seam Roof
SCALE: 3/4" - 1'-0"

General Notes

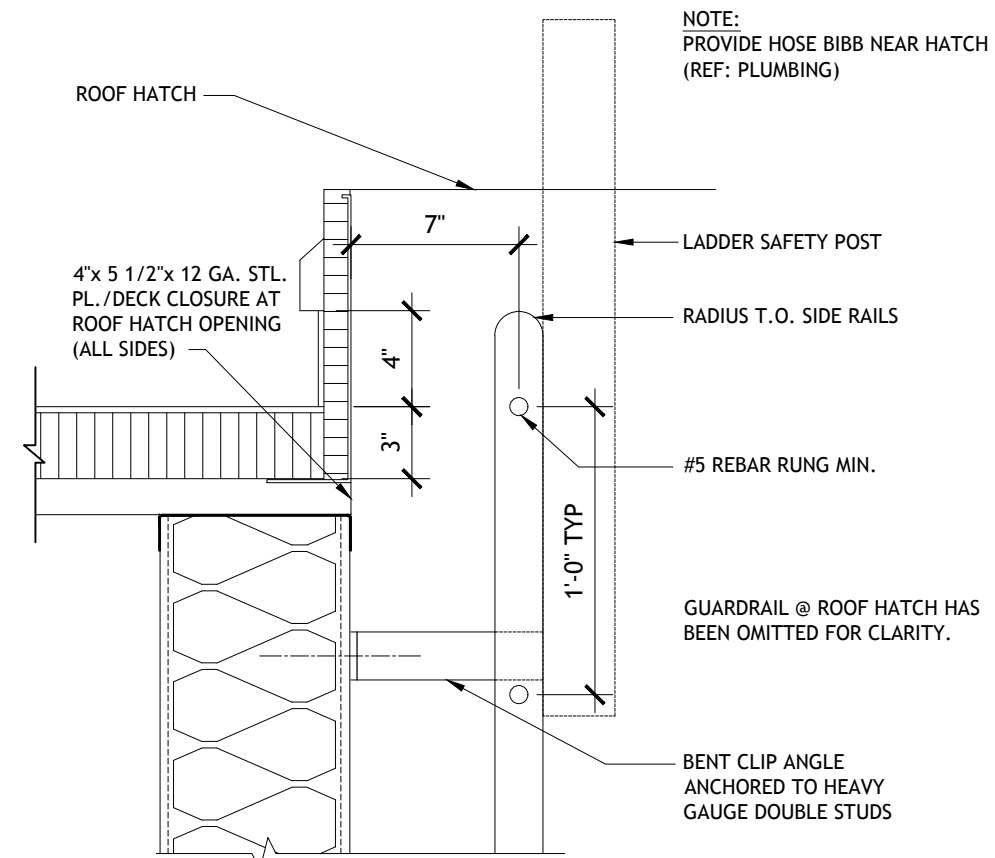
1. REFER TO SCHEDULE SHEETS A0.1 THROUGH A0.7 FOR INFORMATION REGARDING WALLS, DOORS AND WINDOWS.
2. ALL FURNITURE N.I.C.

Keyed Notes

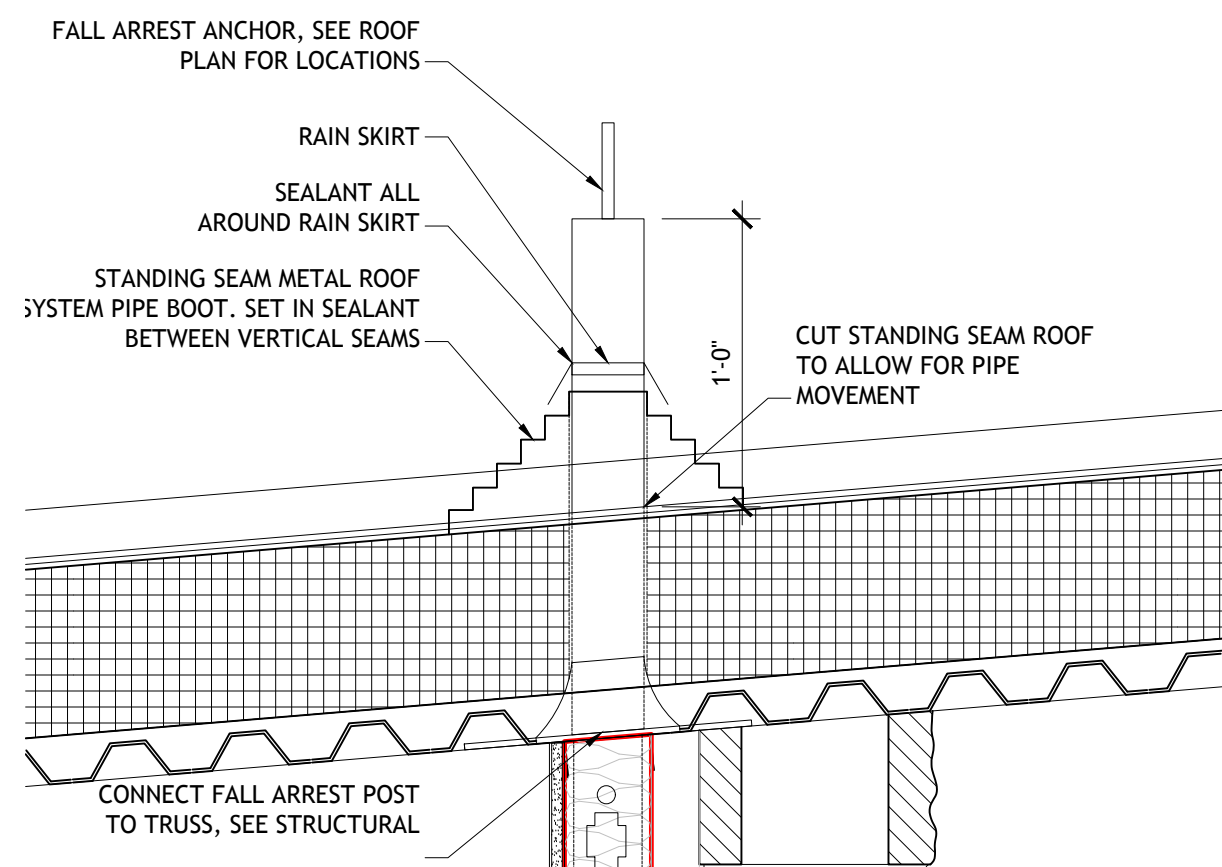
1. PRE-FINISHED 5" METAL GUTTER
2. PRE-FINISHED 4"x4" METAL DOWNSPOUT
3. SNOW GUARDS, SEE DETAIL 1C/A4.2
4. ROOF VENT, SEE MECHANICAL
5. ROOF DRAIN AND OVERFLOW, SEE 1B/A4.2 AND MECHANICAL
6. ROOF CRICKET
7. ROOF ACCESS HATCH W/ LADDER POST, SEE DETAIL 5/A4.2
8. FALL ARREST ANCHOR

Alternates List

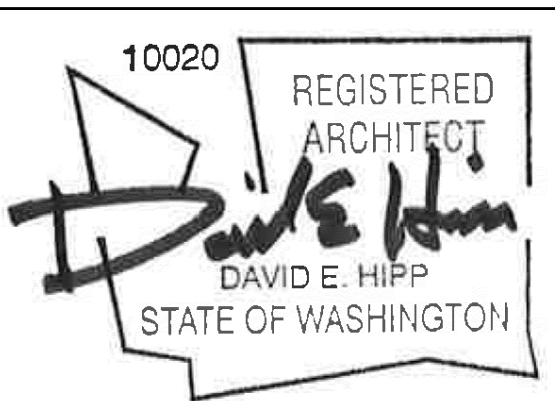
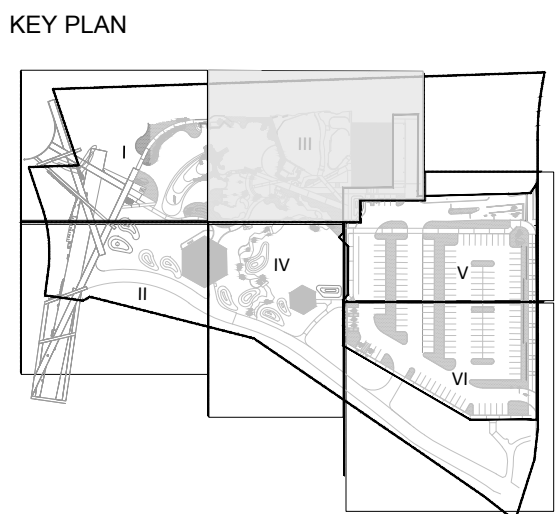
- ALTERNATE #3: CREW ROOM AND ASSOCIATED OFFICE WALLS, RESTROOM WALLS, DOORS AND FINISHES.
- ALTERNATE #4: VEHICLE CANOPY, INCLUDING FOUNDATIONS, STRUCTURE, ROOFING AND FLASHING AT WALL.



5 Roof Hatch Detail
SCALE: 1 1/2" = 1'-0"



6 Fall Arrest Anchor
SCALE: 1 1/2" = 1'-0"



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 4.2

FILE NAME:

BY	REVISIONS	DATE

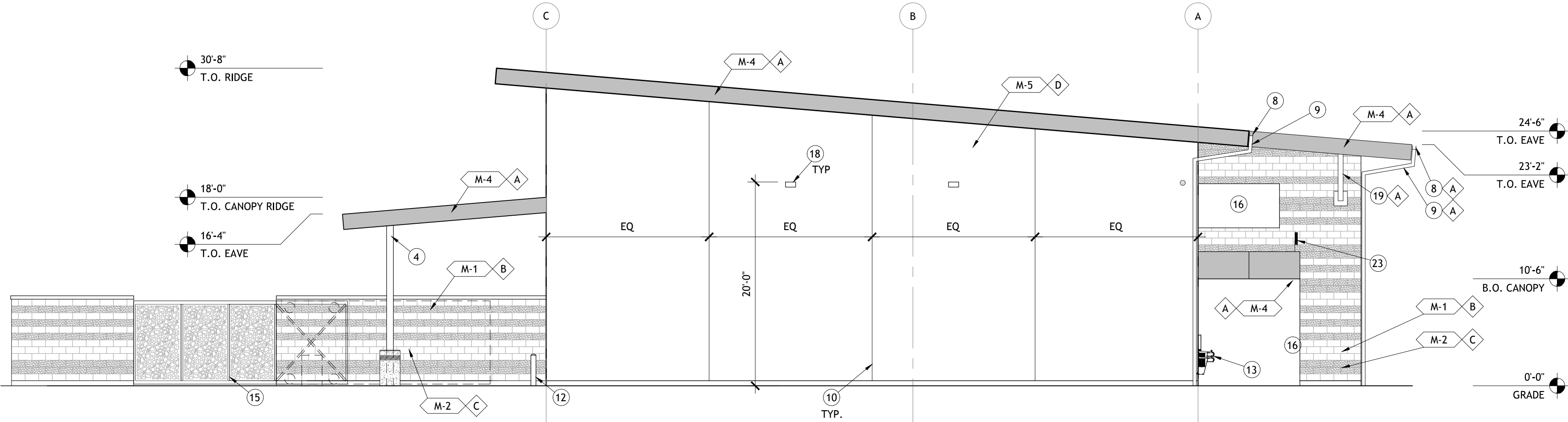
B W A	BERNARDO WILLS
ARCHITECTS PC	

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
CBM NO. 43N, 44W NAVD 88	CITY DATUM	VERTICAL	SCALE

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	CITY OF SPOKANE
3.15.19 DRAWN CLK 3.15.19 DESIGNED DH CHECKED APPROVED	

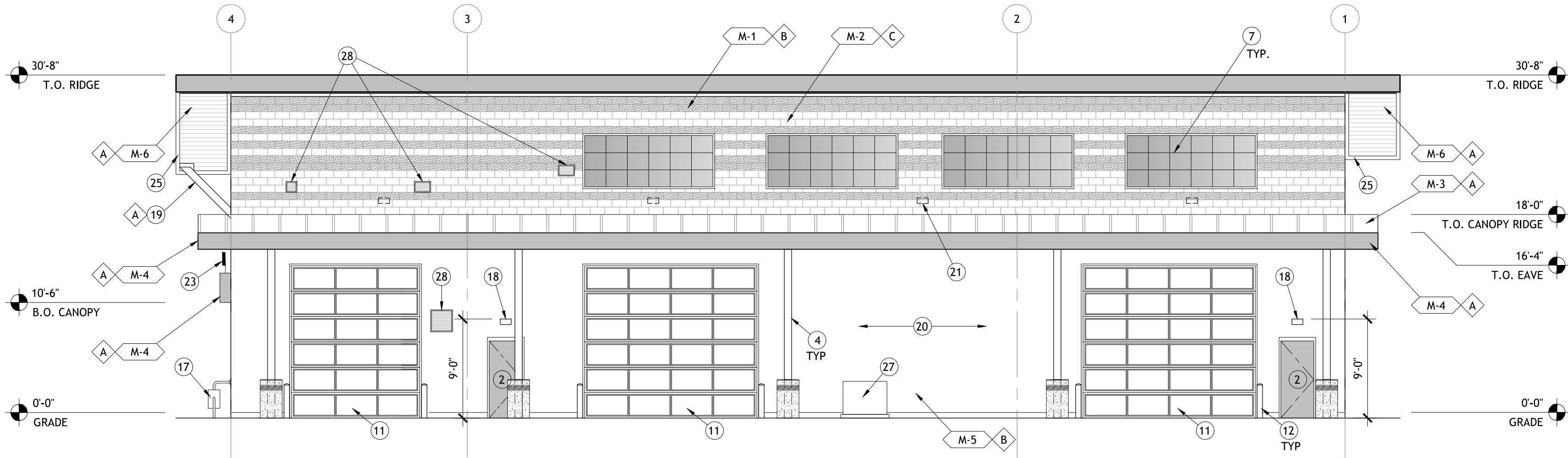
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE: SECOND LEVEL ROOF PLAN 7.3.2019
DATE: Jun 25, 2019 - 2:29pm by: ckilmer



1 North Elevation

SCALE: 1/8" = 1'-0"



2 East Elevation

SCALE: 1/8" = 1'-0"

CMU Legend

	10" SPLIT FACE CMU
	10" GROUND FACE CMU
	10" SMOOTH FACE CMU

Materials & Finishes

M-1	10" SPLIT FACE CMU W/ INTEGRAL COLOR
M-2	10" GROUND FACE CMU W/ INTEGRAL COLOR
M-3	STANDING SEAM METAL ROOF SYSTEM
M-4	PRE-FINISHED MTL FASCIA
M-5	10" SMOOTH FACE CMU W/ INTEGRAL COLOR
M-6	PRE-FINISHED MTL SOFFIT
M-7	PRE-FINISHED STANDING SEAM MTL ROOFING
M-8	PRE-FINISHED 12" ZOGA VERTICAL METAL PANEL

Material Color Legend

A	COLOR: MATCH AEP SPAN 'WEATHERED COPPER'
B	COLOR: MATCH MUTUAL MATERIALS 'KHAKI'
C	COLOR: MATCH MUTUAL MATERIALS 'DRIFTWOOD'
D	COLOR: NATURAL GREY CMU

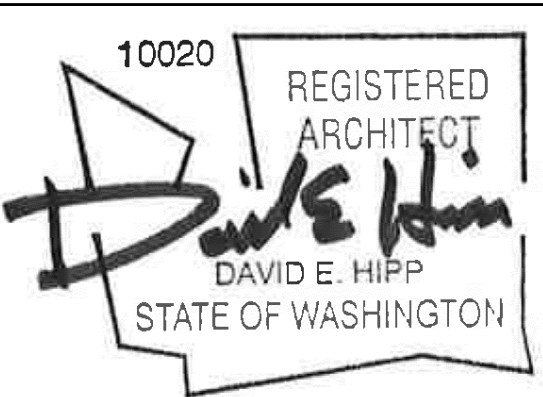
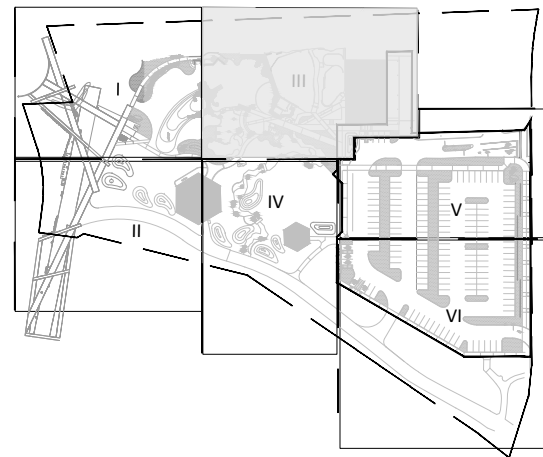
General Notes

- CANOPY AND ASSOCIATED FRAMING ARE 'BID ALTERNATE #3'.

Keyed Notes

- ALUM. WINDOW SYSTEM W/ 1" INSULATED GLAZING
- HOLLOW MTL DOOR AND FRAME, PAINTED
- ALT #2: CONCRETE WALL/SKATE RAMP IN FRONT OF CMU , SEE SKATE PARK DRAWINGS
- STEEL COLUMN, PAINTED, SEE STRUCTURAL
- PRECAST CONC. COPING
- NOT USED
- TRANSLUCENT WALL PANEL SYSTEM
- PRE-FINISHED MTL GUTTER
- PRE-FINISHED MTL. DOWN SPOUT
- MASONRY CONTROL JOINT, SEE STRUCTURAL
- OVERHEAD SECTIONAL DOOR
- 6" CONC. FILLED BOLLARD W/ PLASTIC COVER, SEE DETAIL 2/A2.1
- WATER FOUNTAIN, SEE PLUMBING
- SNOW GUARDS, SEE ROOF PLAN
- PRE-FABRICATED, CANTILEVERED, ROLLING METAL GATE SYSTEM W/ OPERATOR, SEE DETAILS 7/A6.4 AND 8/A6.4
- CLEAR OPENING
- GAS METER LOCATION, SEE MECHANICAL
- SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL
- 6"x8" TUBE STEEL BRACE, PAINTED. SEE STRUCTURAL
- FOR BASE BID, EXTEND CMU PATTERN THROUGH WALL AREA. FOR ALT #2, PROVIDE SMOOTH-FACE CMU THROUGH WALL AREA
- FOR BASE BID, PROVIDE WALL PACK LIGHTS. DELETE FOR ALT #4
- EXTERIOR RESTROOM SIGN, SEE DETAIL 4/A11.3
- EXTERIOR BUILDING SIGN, SEE DETAIL 2D/A6.2 AND 1C/A6.3
- RETAINING WALL AND GUARD RAIL, SEE LANDSCAPING
- PRE-FINISHED METAL SOFFIT PANEL SYSTEM
- VERIFY DIMENSION IN FIELD AND W/ SKATE PARK DRAWINGS
- HVAC CONDENSER UNIT, SEE MECHANICAL
- PRE-FINISHED METAL LOUVER. COLOR TO MATCH ROOF SYSTEM. SEE MECHANICAL.
- EXHAUST FLUE, SEE MECHANICAL

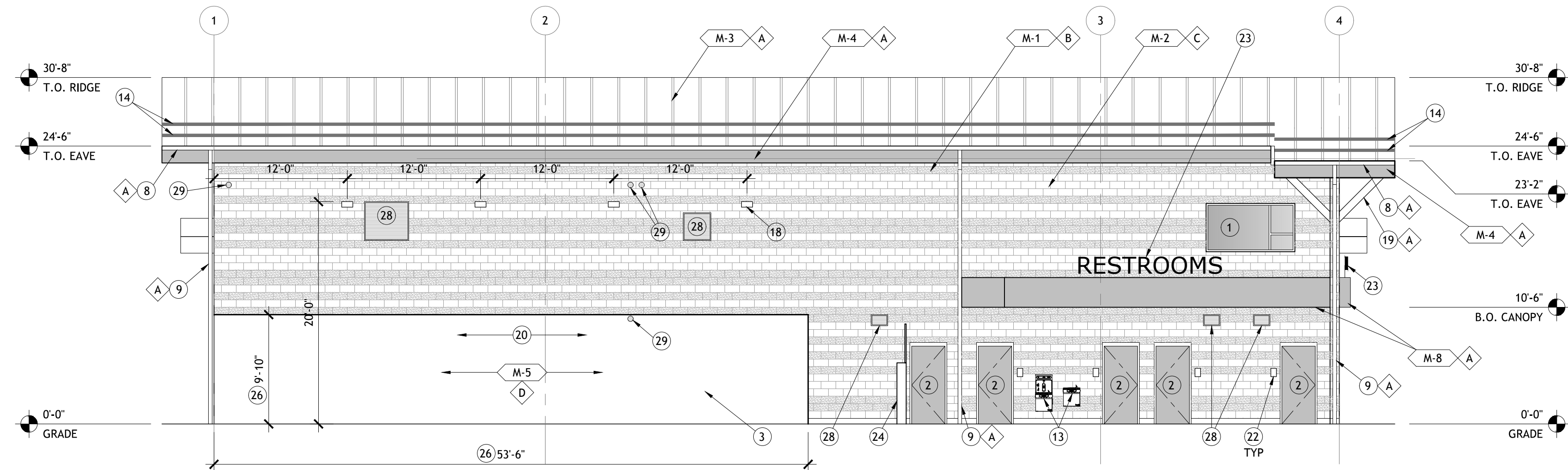
KEY PLAN



DIGITALLY SIGNED:

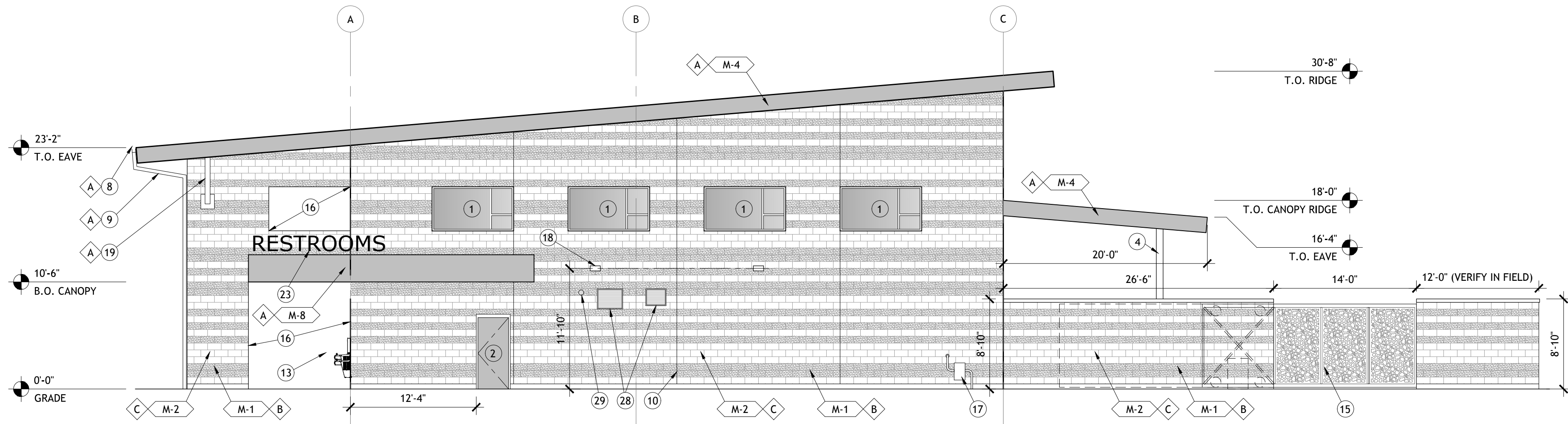
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 5.1
PK: 21 OF 32	REVISION NO.:
FILE NAME:	

BY	REVISIONS	DATE	B W A BERNARDO WILLS ARCHITECTS PC	LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	ELEVATION 1734.64' @ CAP #CP9 HORIZONTAL CBM NO. 43N, 44W NAVD 88 VERTICAL CITY DATUM SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	CITY OF SPOKANE DEPARTMENT OF PARKS AND RECREATION 808 WEST SPOKANE FALLS BLVD. SPOKANE, WASHINGTON 99201-3343 (509) 625-6200	PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET SHEET TITLE: NORTH AND EAST ELEVATIONS 7.3.2019 DATE: Jun 25, 2019 - 2:29pm by: ckilmer	FILE NAME:
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1 West Elevation

SCALE: 1/8" = 1'-0"



2 South Elevation

SCALE: 1/8" = 1'-0"

CMU Legend

	10" SPLIT FACE CMU
	10" GROUND FACE CMU
	10" SMOOTH FACE CMU

Materials & Finishes

M-1	10" SPLIT FACE CMU W/ INTEGRAL COLOR
M-2	10" GROUND FACE CMU W/ INTEGRAL COLOR
M-3	STANDING SEAM METAL ROOF SYSTEM
M-4	PRE-FINISHED MTL FASCIA
M-5	10" SMOOTH FACE CMU W/ INTEGRAL COLOR
M-6	PRE-FINISHED MTL SOFFIT
M-7	PRE-FINISHED STANDING SEAM MTL ROOFING
M-8	PRE-FINISHED 12" ZOGA VERTICAL METAL PANEL

Material Color Legend

A	COLOR: MATCH AEP SPAN 'WEATHERED COPPER'
B	COLOR: MATCH MUTUAL MATERIALS 'KHAKI'
C	COLOR: MATCH MUTUAL MATERIALS 'DRIFTWOOD'
D	COLOR: NATURAL GREY CMU

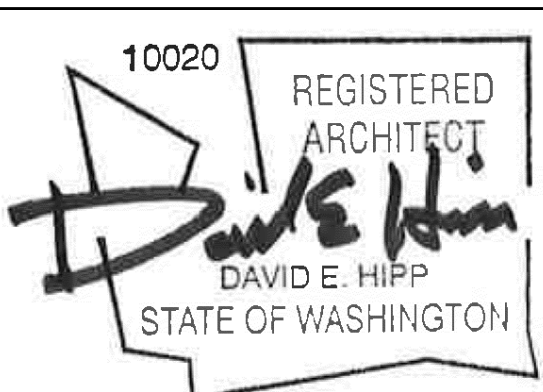
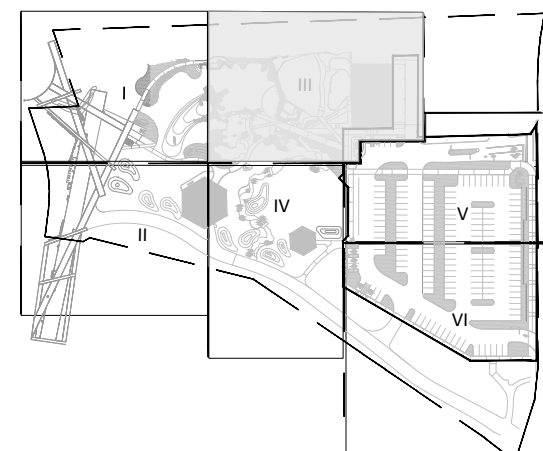
General Notes

- CANOPY AND ASSOCIATED FRAMING ARE 'BID ALTERNATE #3'.

Keyed Notes

- ALUM. WINDOW SYSTEM W/ 1" INSULATED GLAZING
- HOLLOW MTL DOOR AND FRAME, PAINTED
- ALT #2: CONCRETE WALL/SKATE RAMP IN FRONT OF CMU, SEE SKATE PARK DRAWINGS
- STEEL COLUMN, PAINTED, SEE STRUCTURAL
- PRECAST CONC. COPING
- NOT USED
- TRANSLUCENT WALL PANEL SYSTEM
- PRE-FINISHED MTL GUTTER
- PRE-FINISHED MTL. DOWN SPOUT
- MASONRY CONTROL JOINT, SEE STRUCTURAL
- OVERHEAD SECTIONAL DOOR
- 6" CONC. FILLED BOLLARD W/ PLASTIC COVER, SEE DETAIL 2/A2.1
- WATER FOUNTAIN, SEE PLUMBING
- SNOW GUARDS, SEE ROOF PLAN
- PRE-FABRICATED, CANTILEVERED, ROLLING METAL GATE SYSTEM W/ OPERATOR, SEE DETAILS 7/A6.4 AND 8/A6.4
- CLEAR OPENING
- GAS METER LOCATION, SEE MECHANICAL
- SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL
- 6"x8" TUBE STEEL BRACE, PAINTED. SEE STRUCTURAL
- FOR BASE BID, EXTEND CMU PATTERN THROUGH WALL AREA. FOR ALT #2, PROVIDE SMOOTH-FACE CMU THROUGH WALL AREA
- FOR BASE BID, PROVIDE WALL PACK LIGHTS. DELETE FOR ALT #4
- EXTERIOR RESTROOM SIGN, SEE DETAIL 4/A11.3
- EXTERIOR BUILDING SIGN, SEE DETAIL 2D/A6.2 AND 1C/A6.3
- RETAINING WALL AND GUARD RAIL, SEE LANDSCAPING
- PRE-FINISHED METAL SOFFIT PANEL SYSTEM
- VERIFY DIMENSION IN FIELD AND W/ SKATE PARK DRAWINGS
- HVAC CONDENSER UNIT, SEE MECHANICAL
- PRE-FINISHED METAL LOUVER. COLOR TO MATCH ROOF SYSTEM. SEE MECHANICAL.
- EXHAUST FLUE, SEE MECHANICAL

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 5.2

FILE NAME:

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'
ELEVATION	1734.64' @ CAP #CP9
CBM NO.	43N, 44W NAVD 88
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
3.15.19	DRAWN CLK
3.15.19	DESIGNED DH
CHECKED	APPROVED



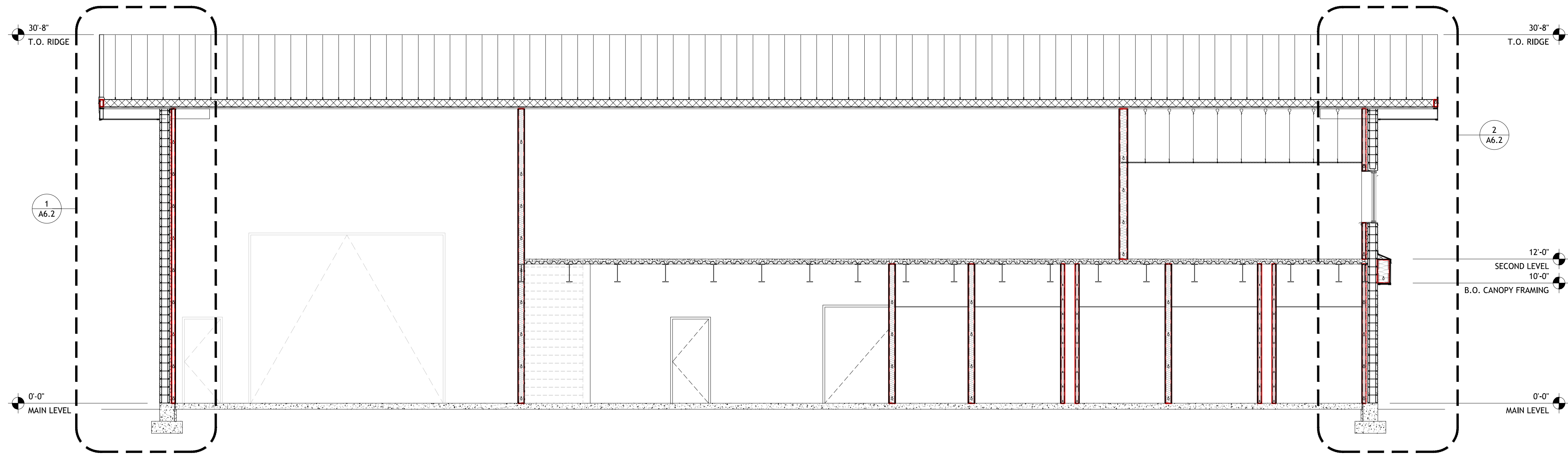
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

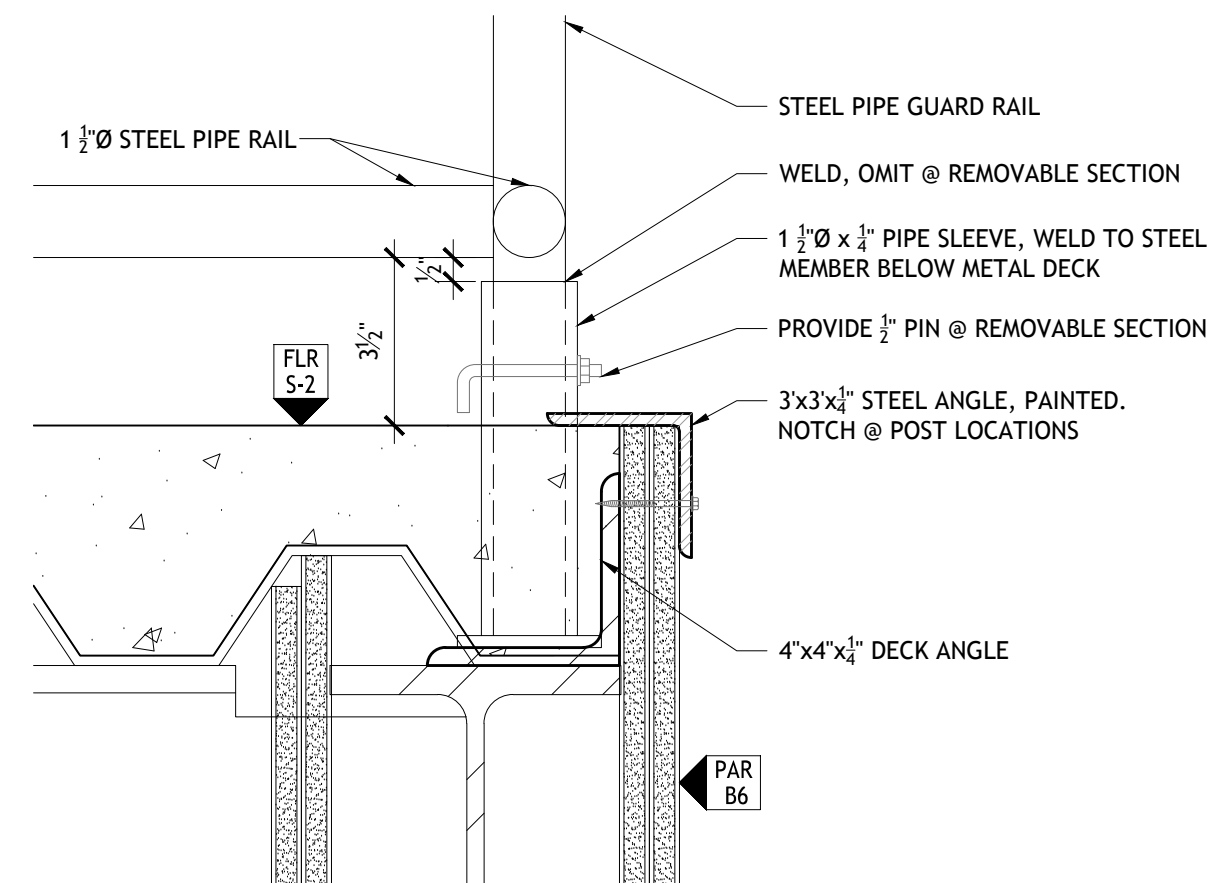
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: SOUTH AND WEST ELEVATIONS

7.3.2019

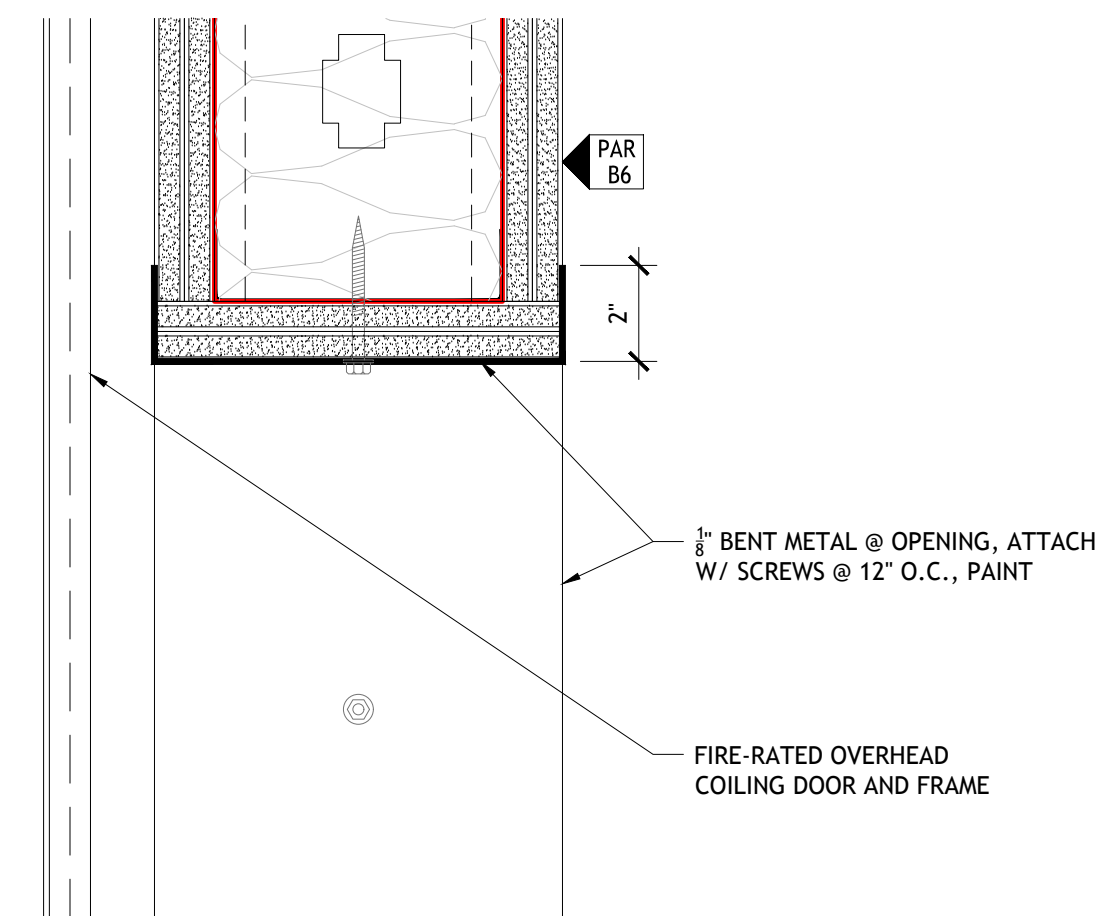
DATE: Jun 25, 2019 - 2:29pm by: ckilmer



1 Building Section
SCALE: 3/16" = 1'-0"

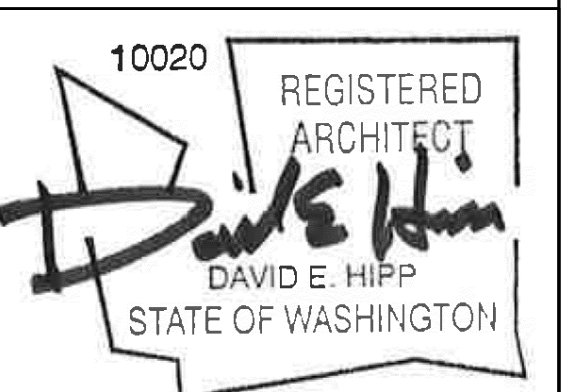
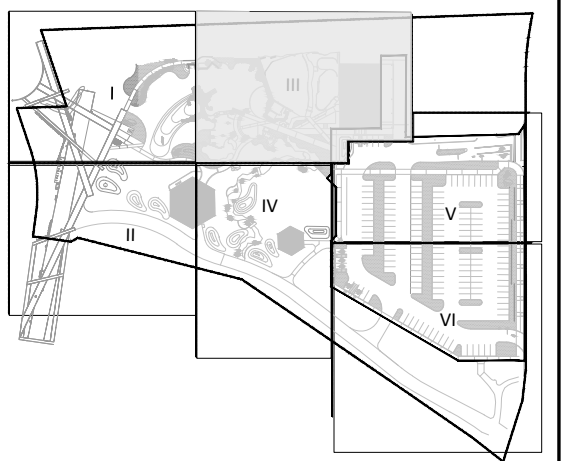


2A Guard Rail @ Mezzanine
SCALE: 3" = 1'-0"



2B Header @ 2-HR Rated Coil-Up Door
SCALE: 1 1/2" = 1'-0"

KEY PLAN



DIGITALLY SIGNED:

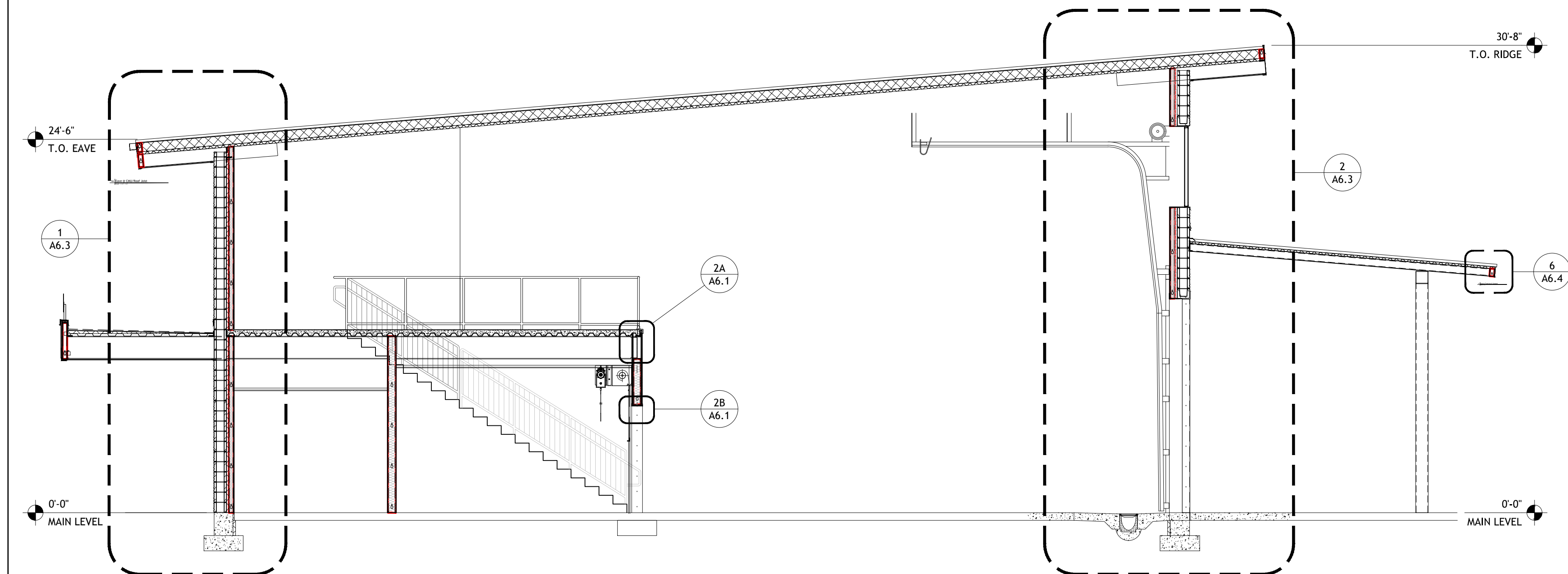
TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 6.1

FILE NAME:



2 Building Section
SCALE: 3/16" = 1'-0"

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

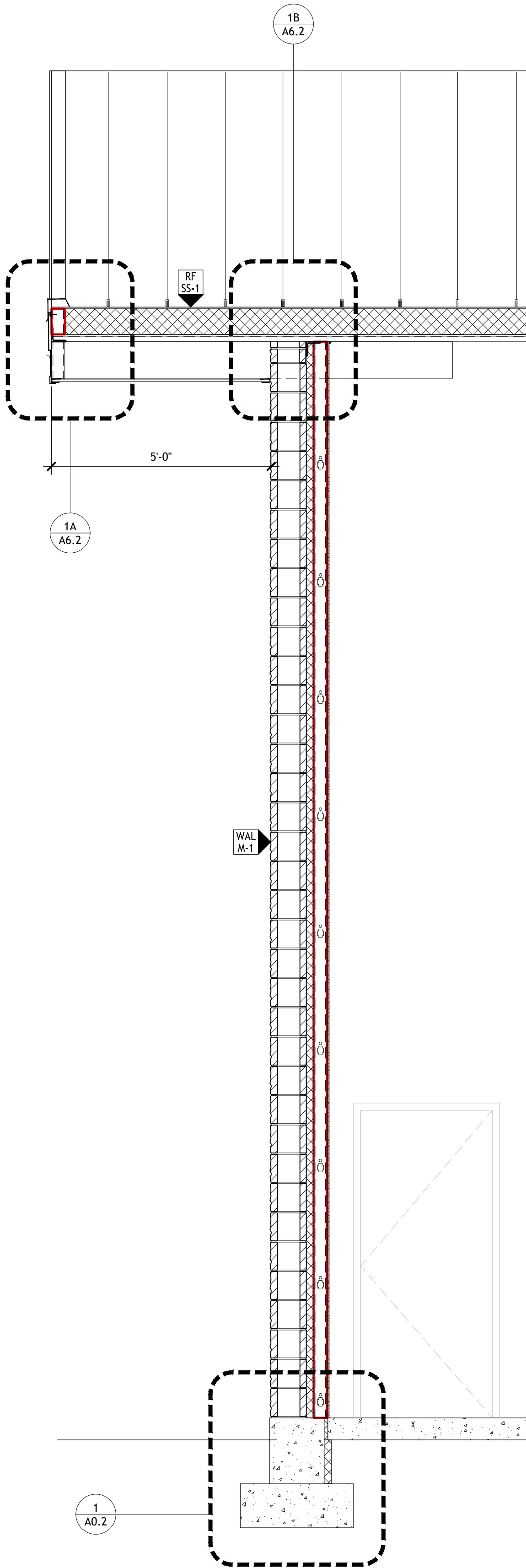
LOCATION	BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'
ELEVATION	1734.64' @ CAP #CP9
CBM NO.	43N, 44W NAVD 88
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
3.15.19	DRAWN CLK
3.15.19	DESIGNED DH
CHECKED	APPROVED



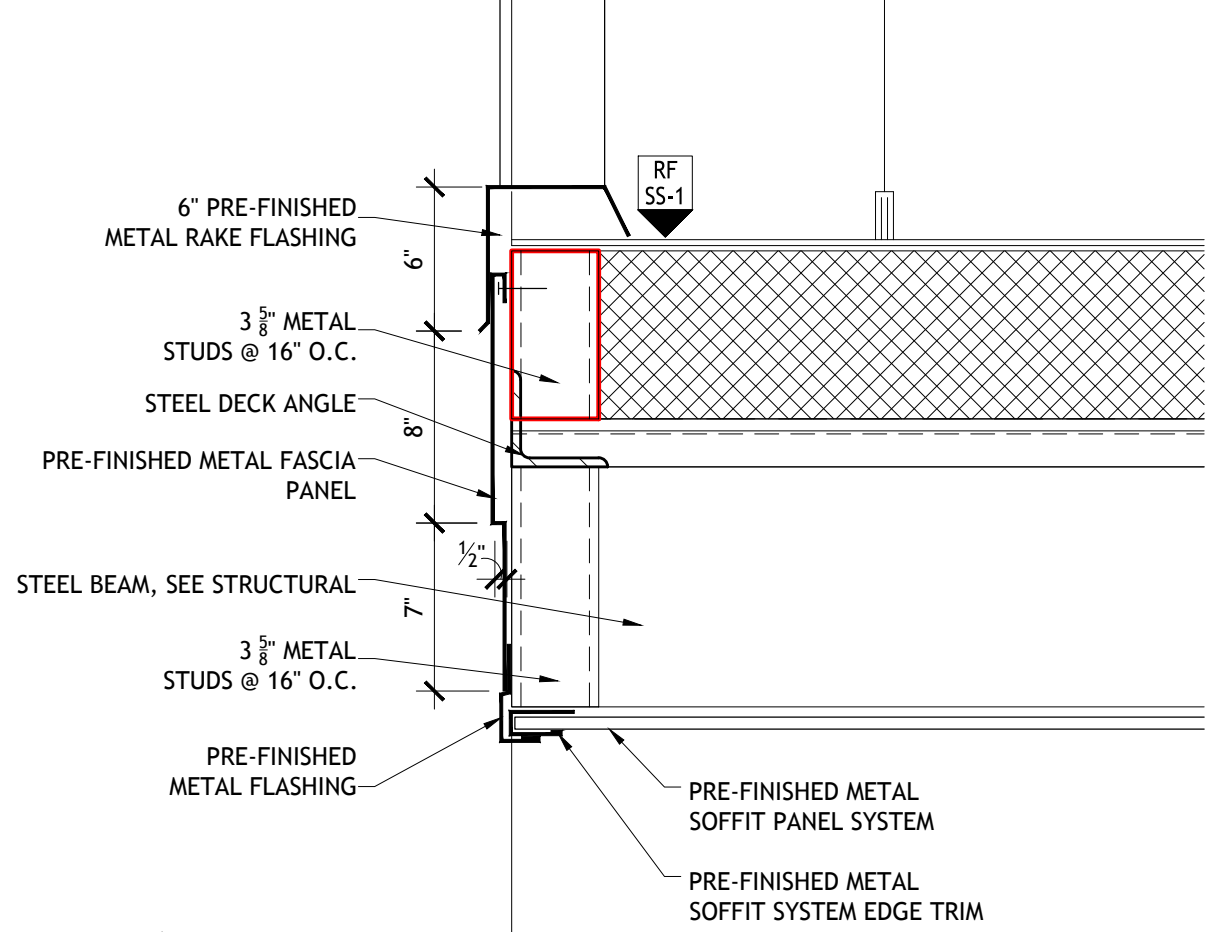
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	WALL SECTIONS AND DETAILS
7.3.2019	DATE: Jun 25, 2019 - 2:29pm by: ckilmer



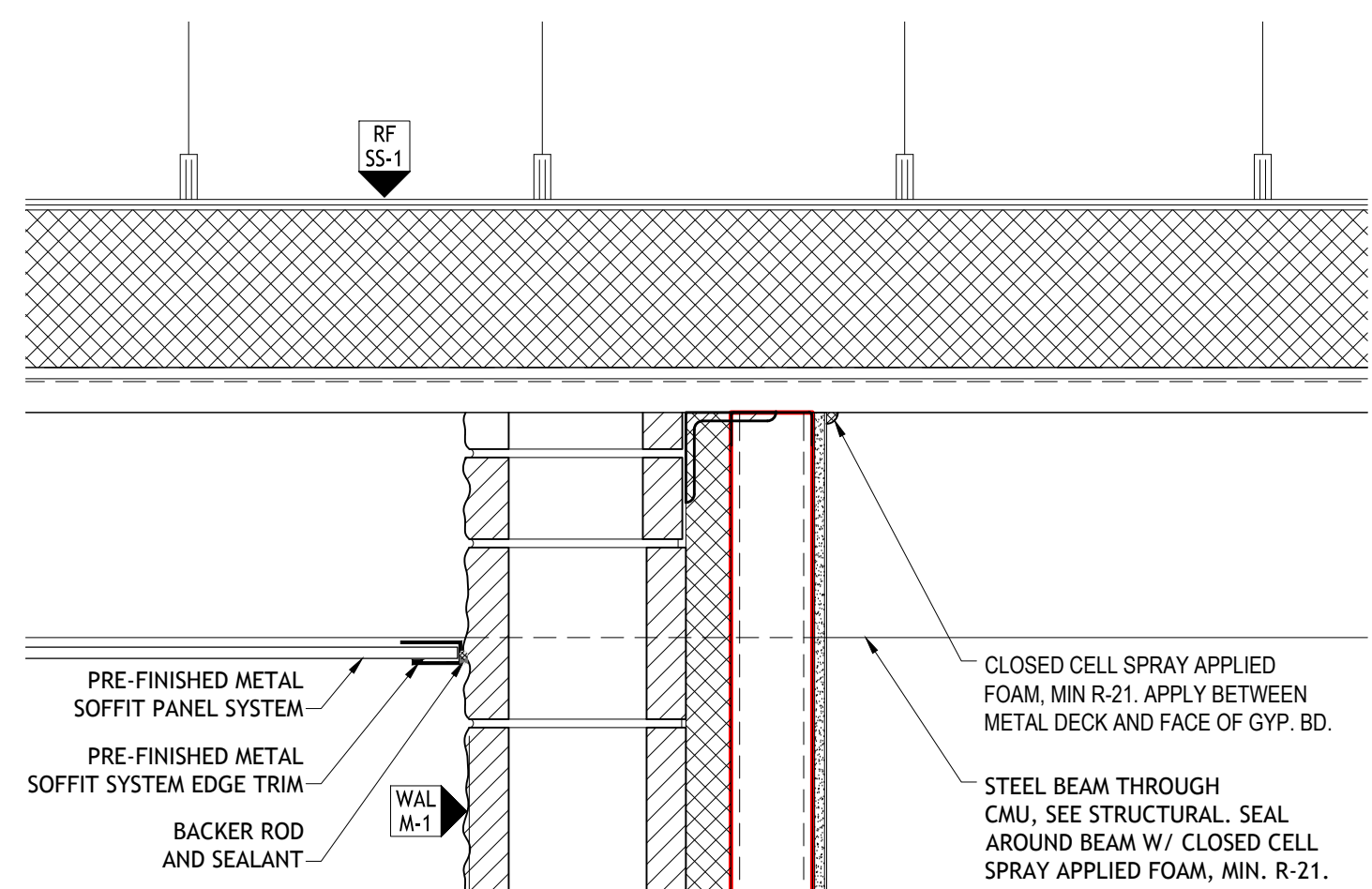
1 Wall Section

SCALE: 1/2" = 1'-0"



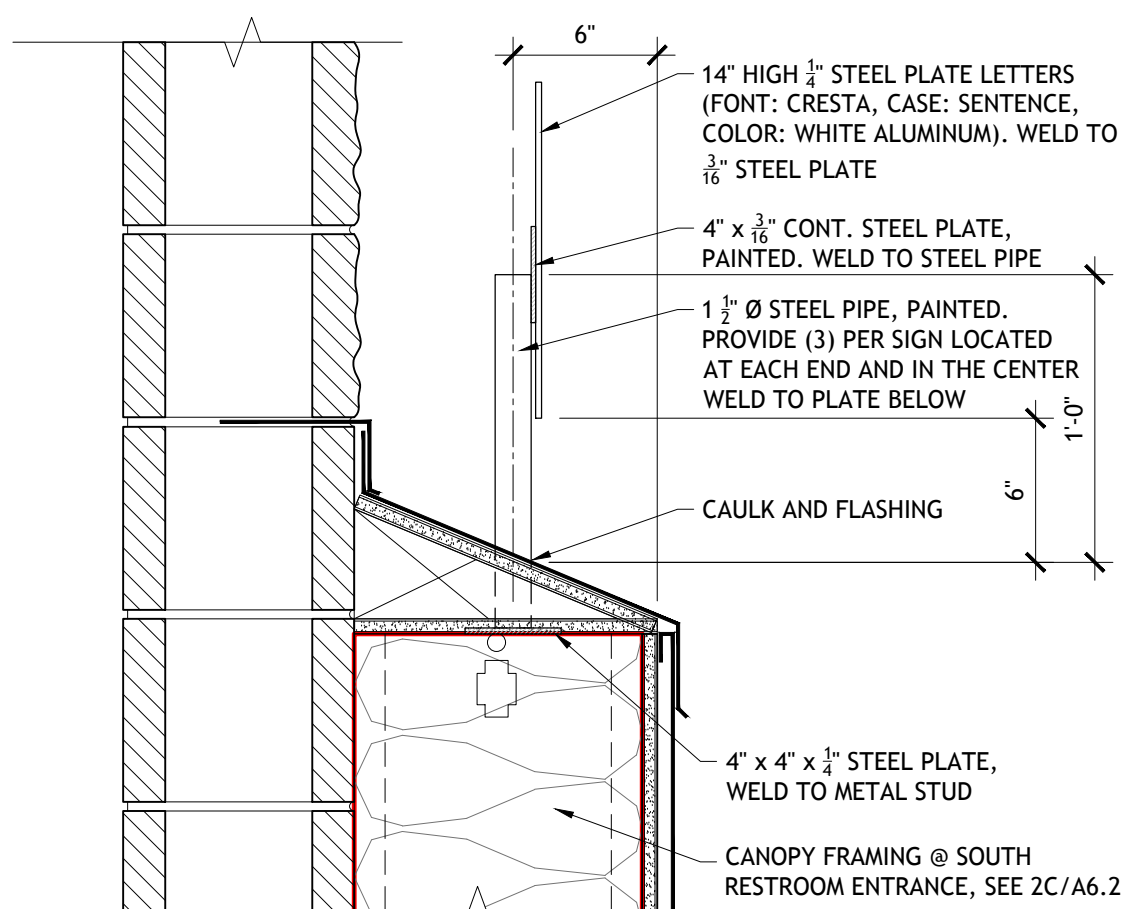
1A Eave Assembly @ Fascia

SCALE: 1 1/2" = 1'-0"



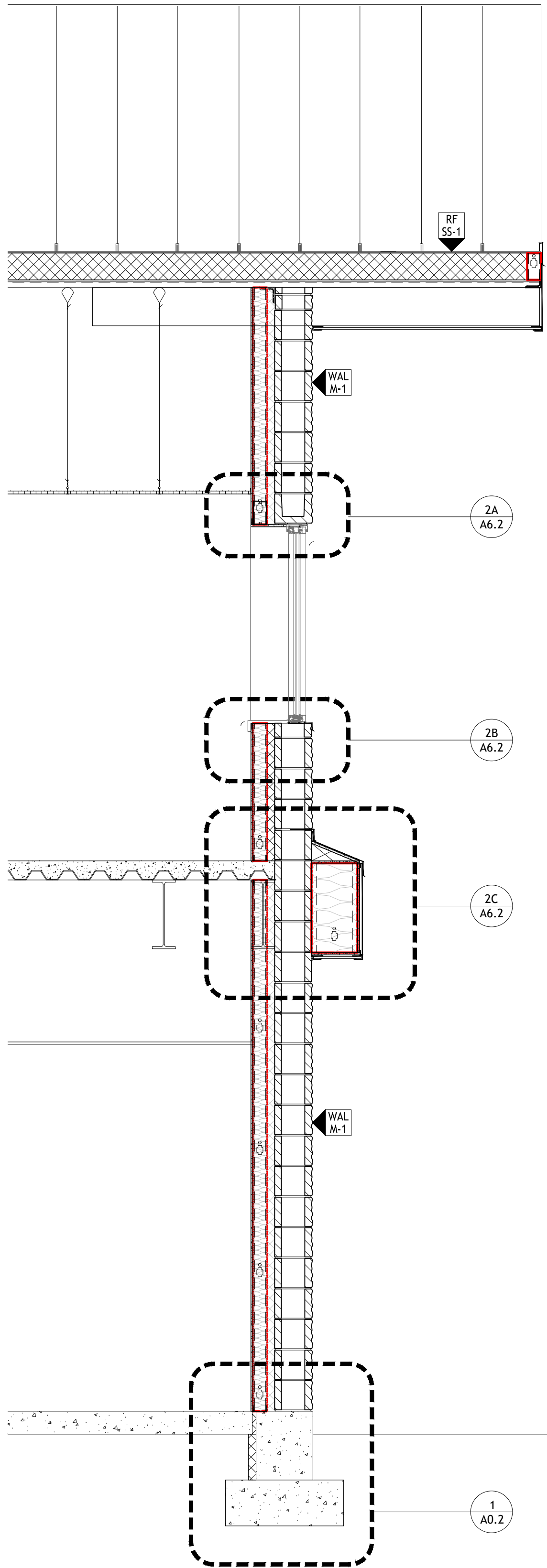
1B Eave Assembly @ CMU

SCALE: 1 1/2" = 1'-0"



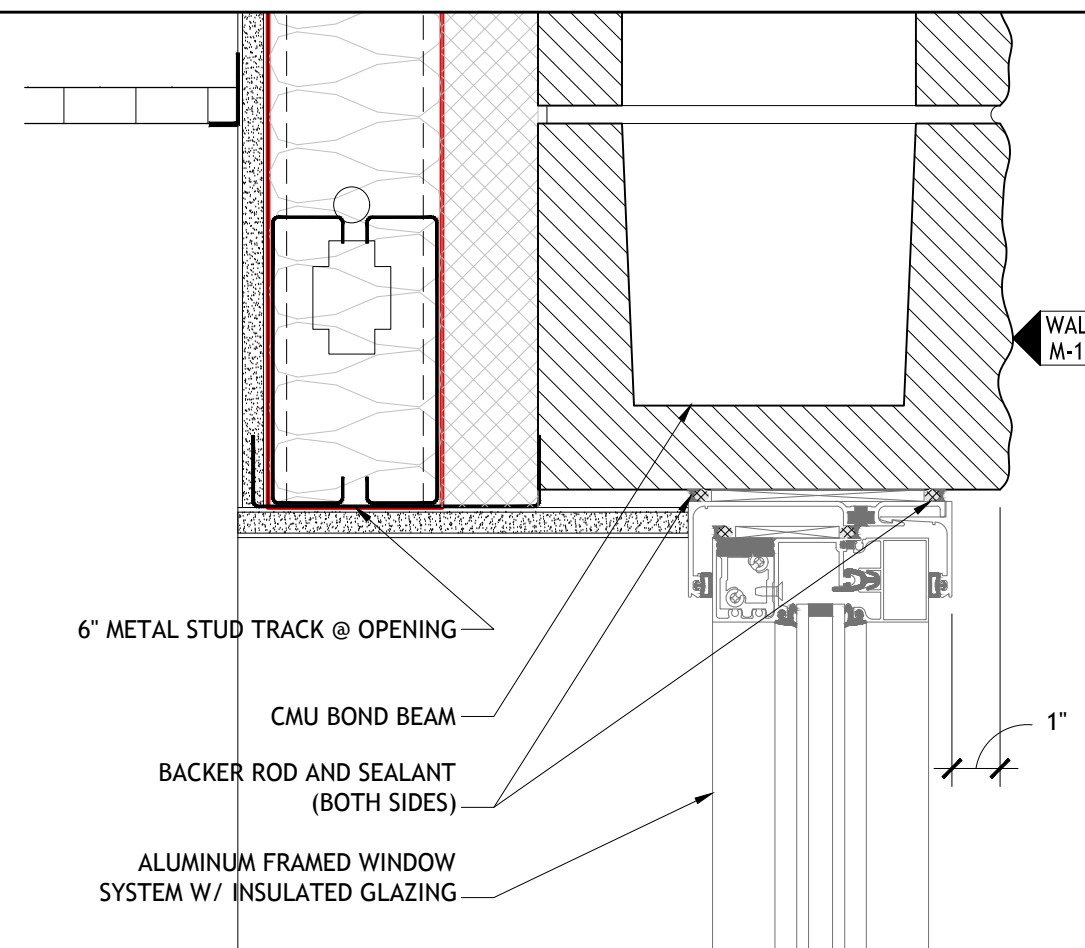
2D Exterior Signage @ South RR Entrance

SCALE: 1 1/2" = 1'-0"



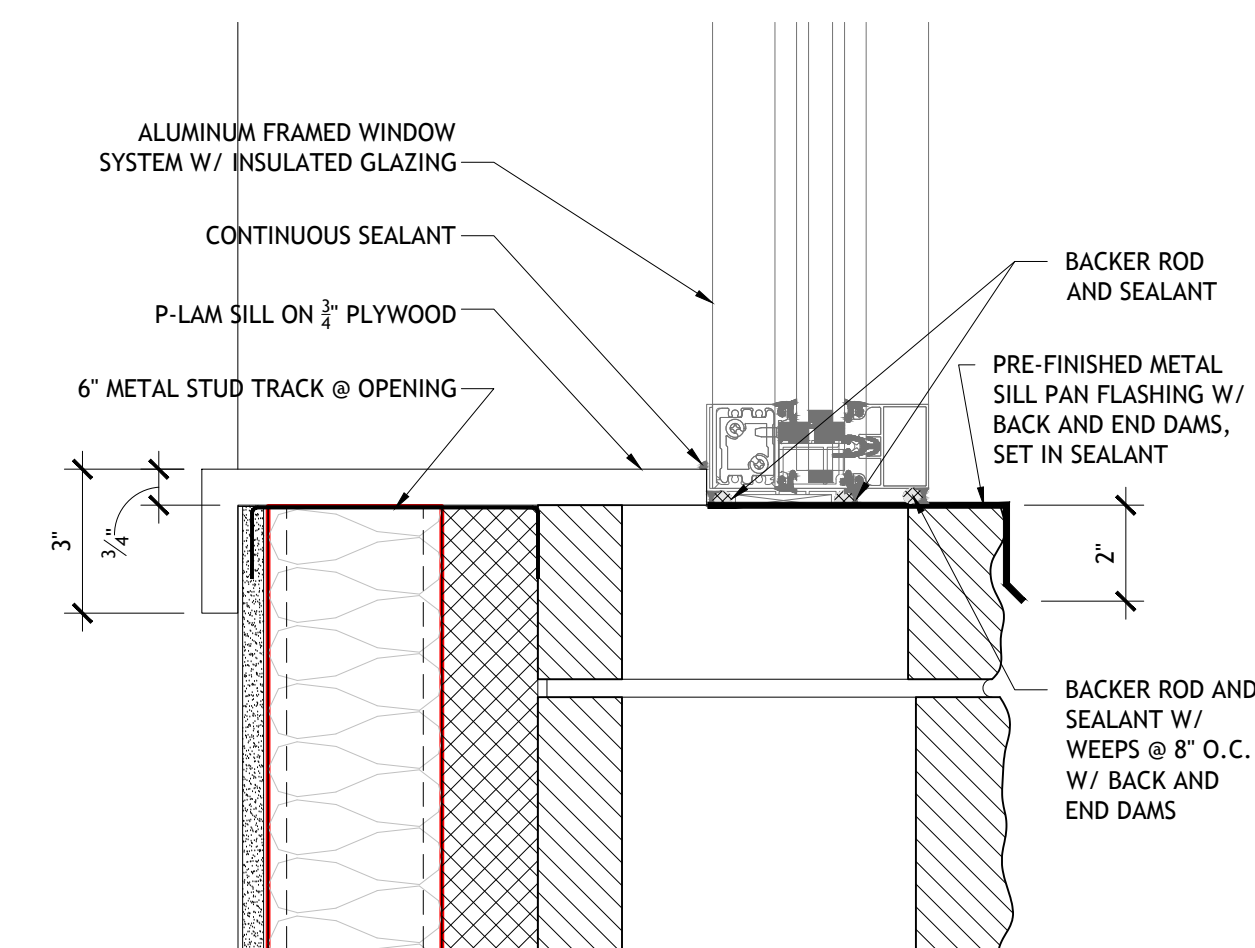
2 Wall Section

SCALE: 1/2" = 1'-0"



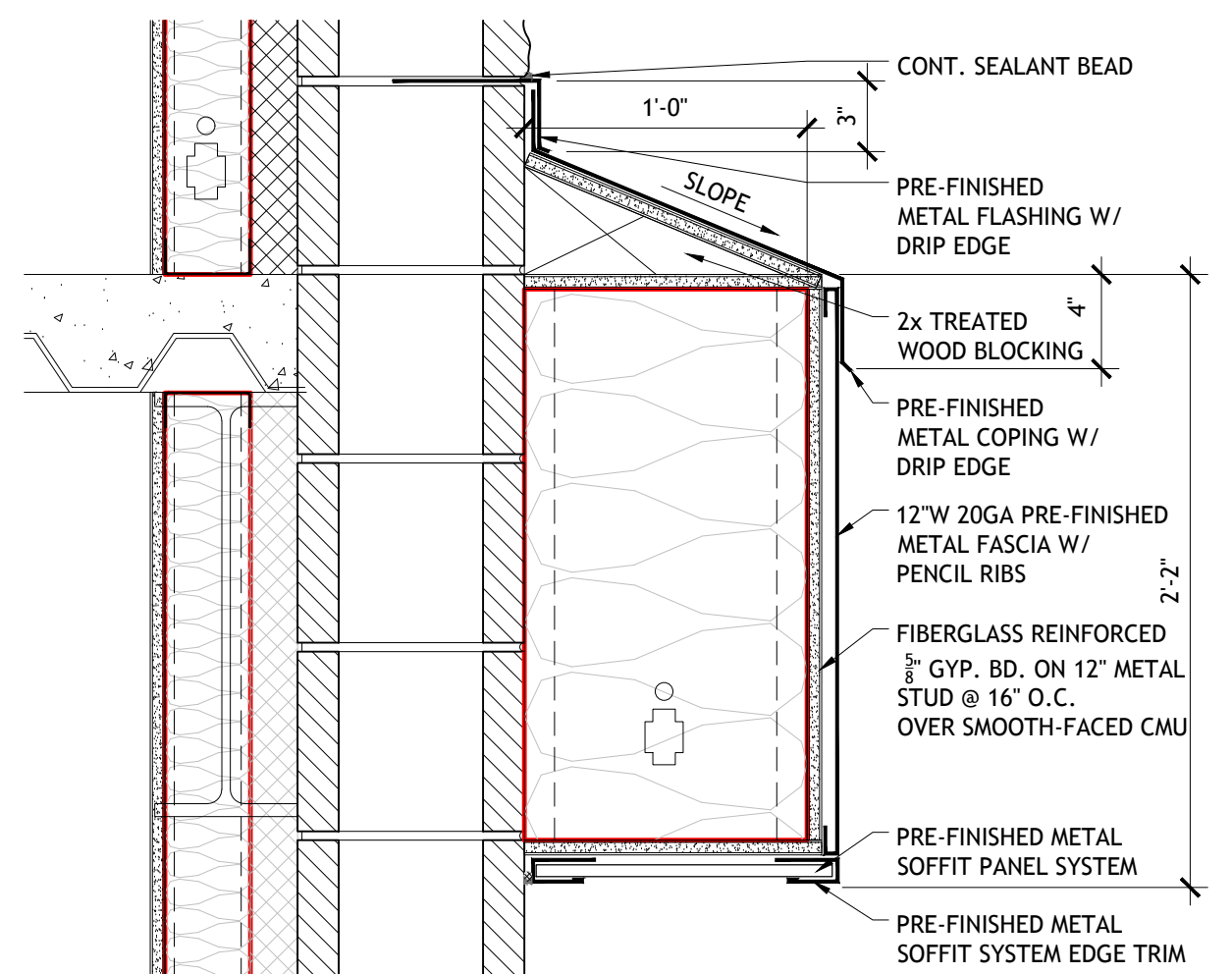
2A Header @ Window (Jamb SIM)

SCALE: 3" = 1'-0"



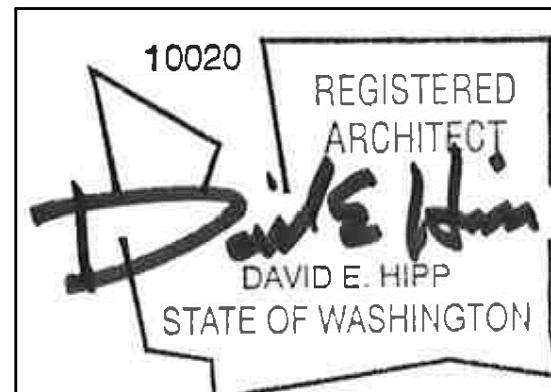
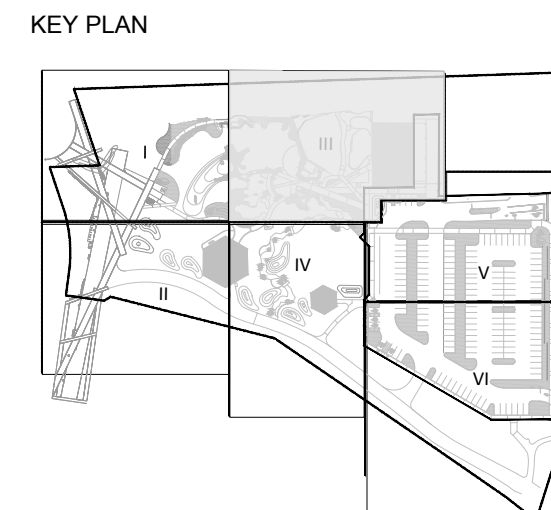
2B Sill @ Window

SCALE: 3" = 1'-0"



2C South RR Entrance Canopy Extension

SCALE: 1 1/2" = 1'-0"



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 6.2

REVISION NO.:

FILE NAME:

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION: BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	CITY DATUM	SCALE
ELEVATION: 1734.64' @ CAP #CP9 CBM NO. 43N, 44W NAVD 88	HORIZONTAL	
	VERTICAL	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

3.15.19	DRAWN	CLK
3.15.19	DESIGNED	DH
	CHECKED	
	APPROVED	



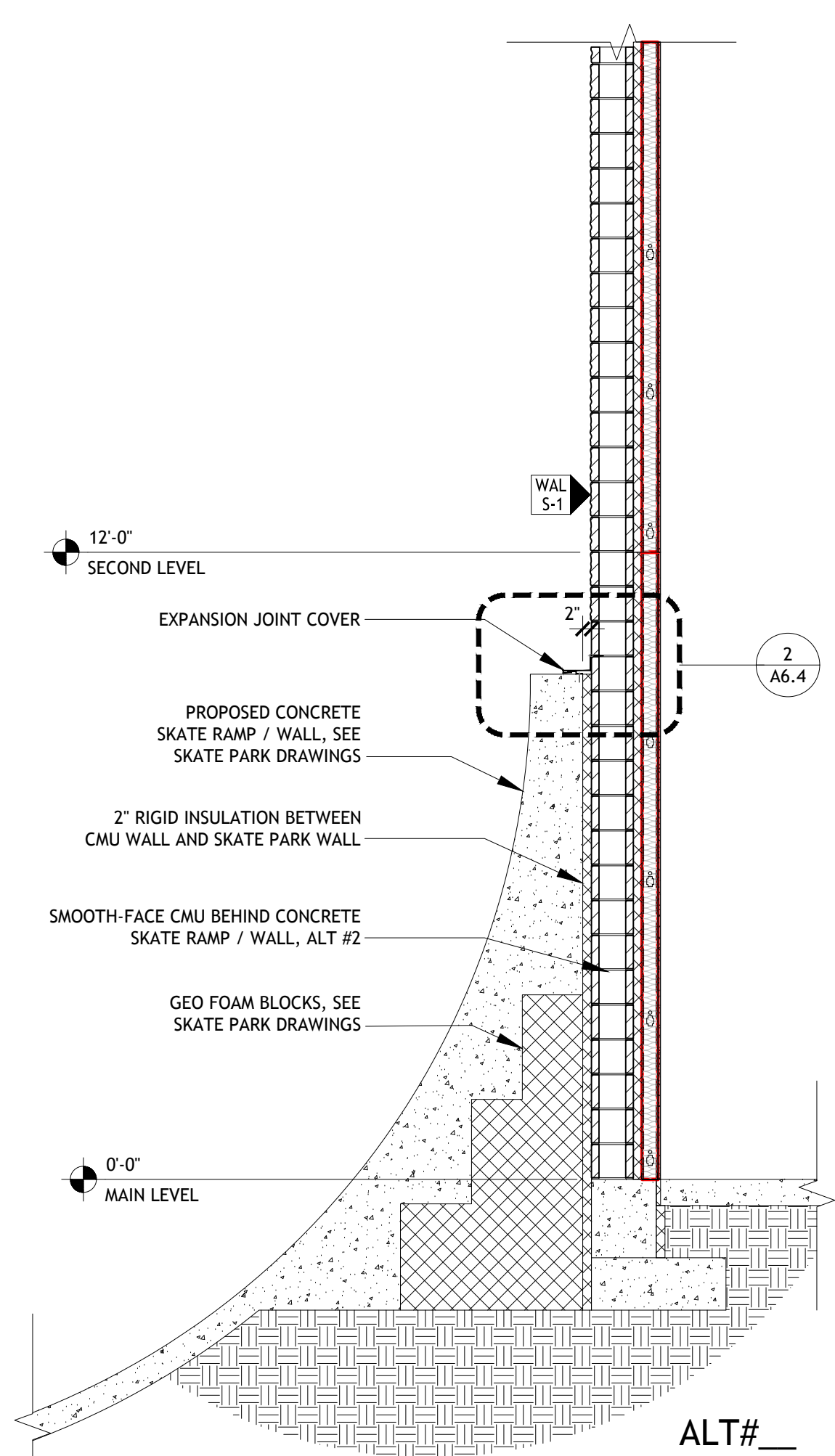
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

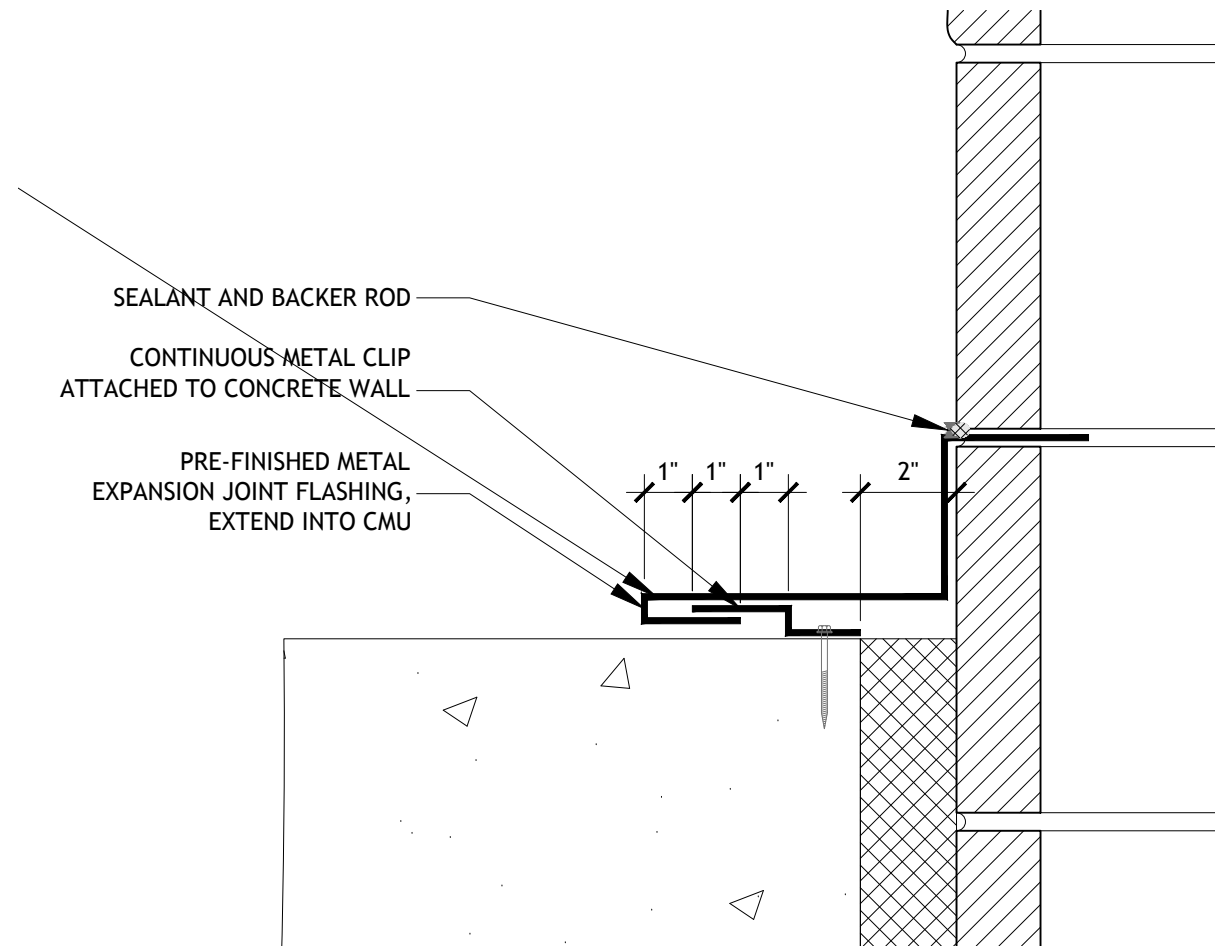
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: WALL SECTIONS AND DETAILS

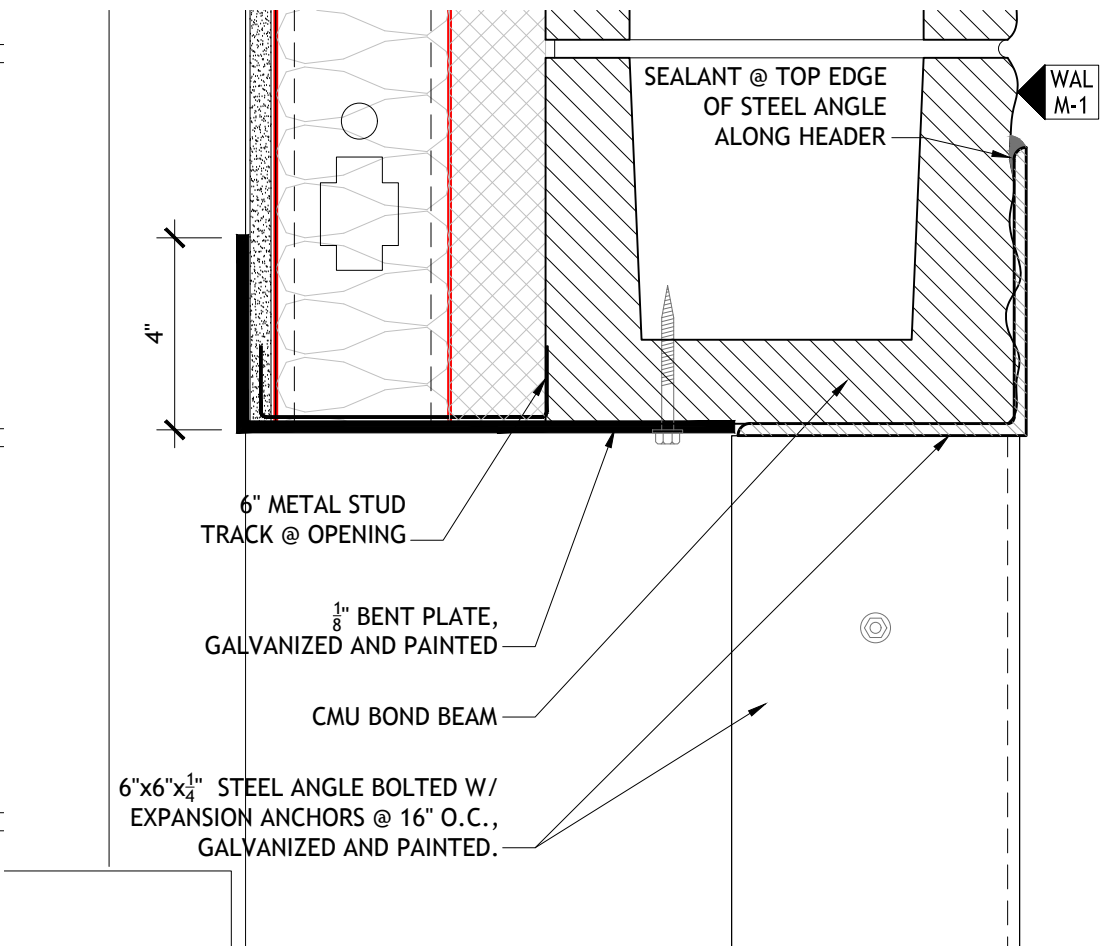
7.3.2019
DATE: Jun 25, 2019 - 2:29pm by: ckilmer



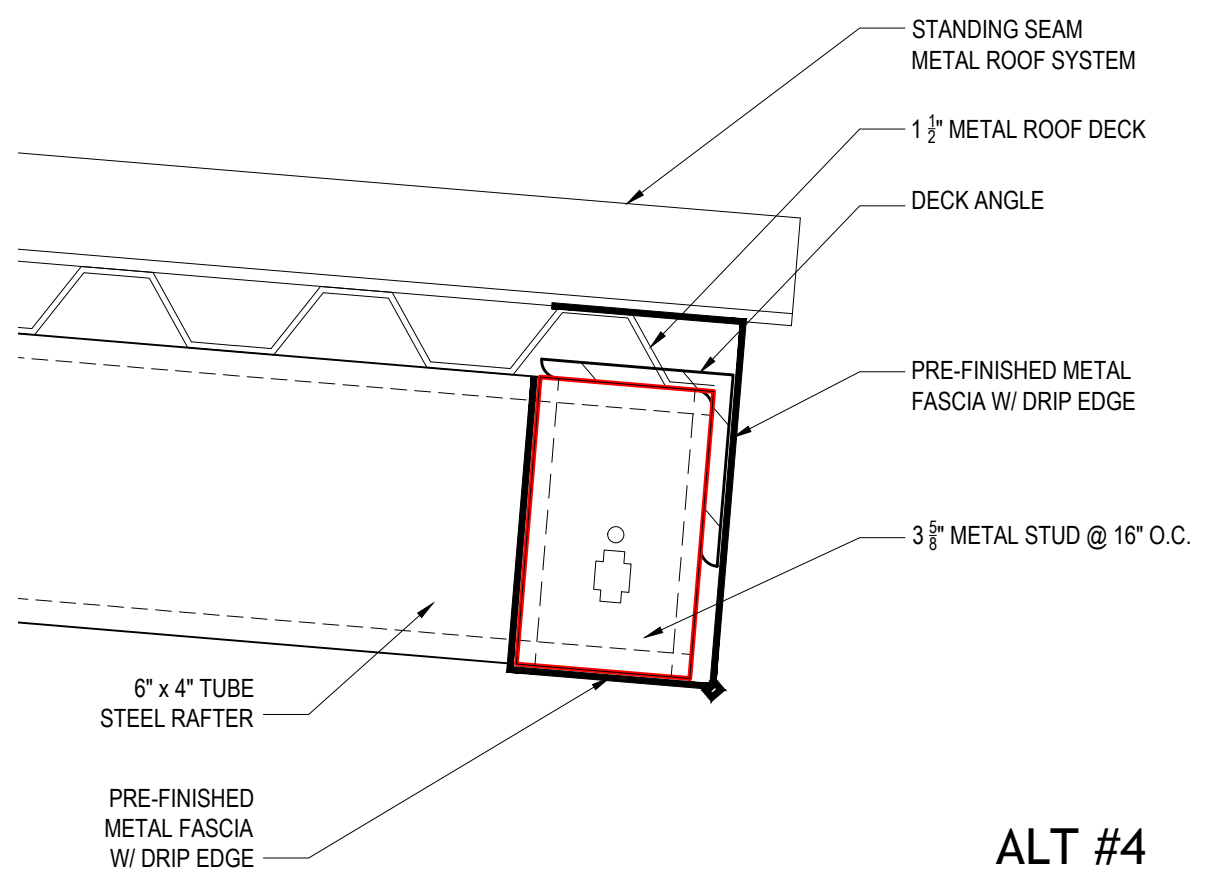
1 Concrete Skate Ramp / Wall @ CMU
SCALE: 3/8" = 1'-0"



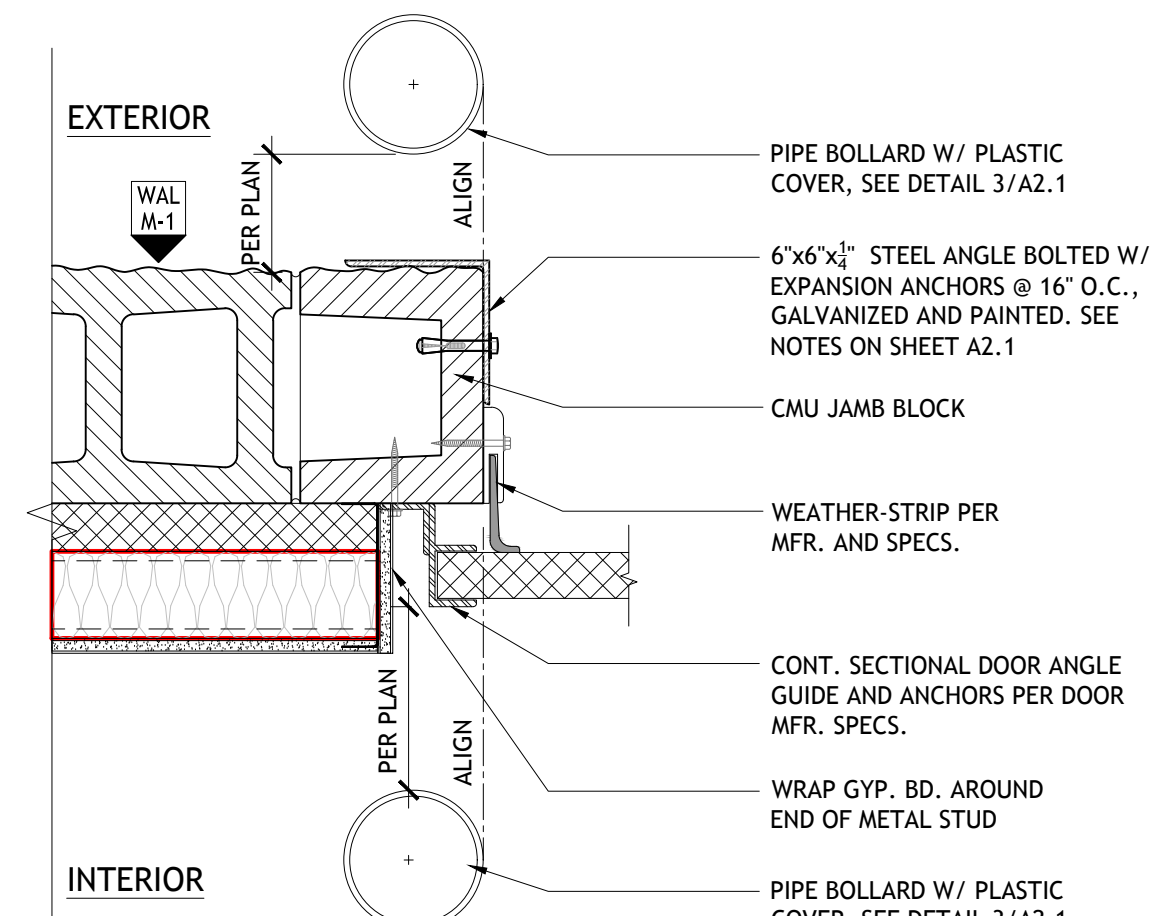
2 Expansion Joint Clip
SCALE: 3" = 1'-0"



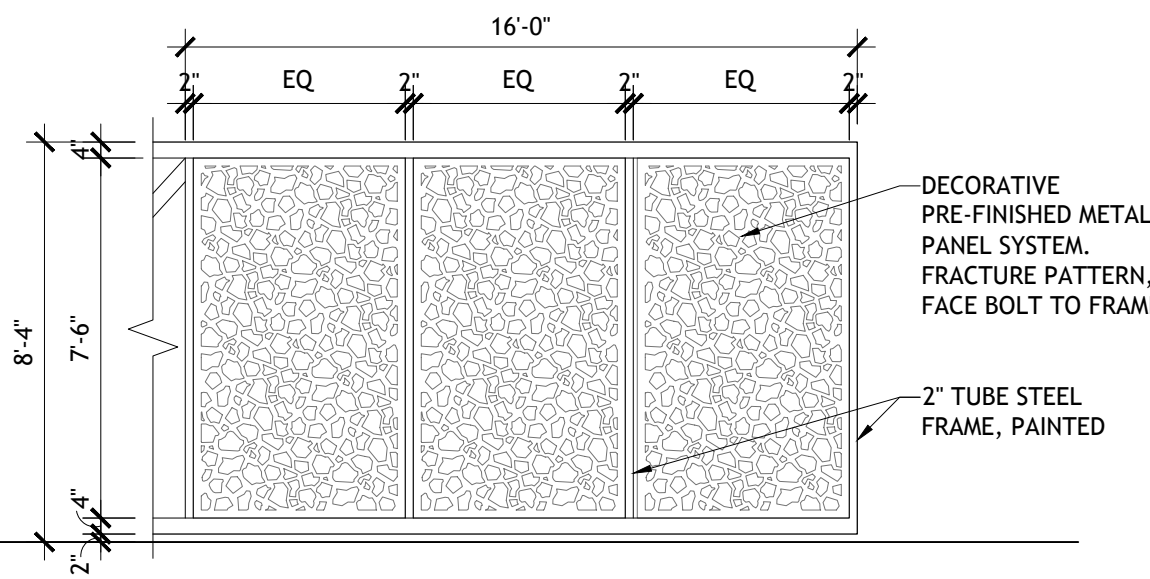
3 Header @ High-Lift Sectional Door
SCALE: 3" = 1'-0"



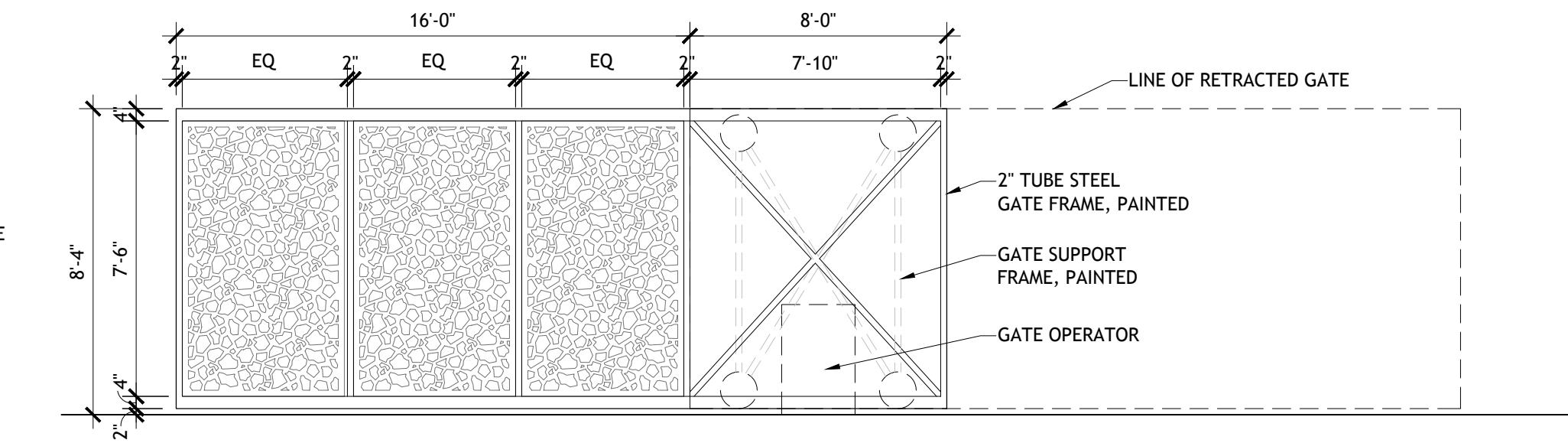
4 Fascia Framing @ Carport
SCALE: 3" = 1'-0"



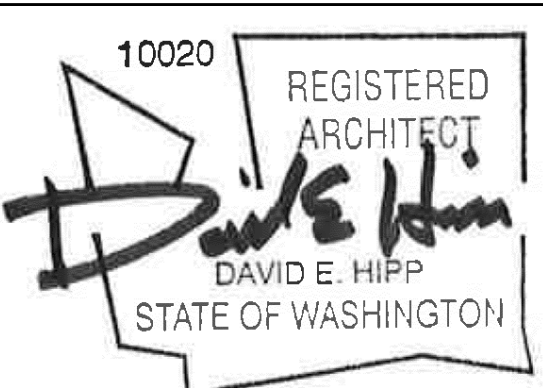
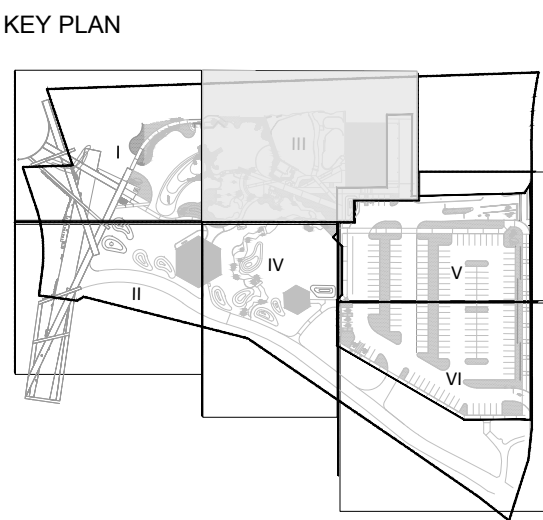
5 Jamb @ High-Lift Sectional Door
SCALE: 1 1/2" = 1'-0" x08-200 D-047 DOOR



6 Vehicle Gate Frame - South Elevation
SCALE: 1/4" = 1'-0"



7 Vehicle Gate Frame - North Elevation
SCALE: 1/4" = 1'-0"



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 6.4
PK: 26 OF 32	REVISION NO.:

FILE NAME:

BY	REVISIONS	DATE

BWABERNARDO WILLS

ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'		CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL	3.15.19 DRAWN CLK	3.15.19 DESIGNED DH
CBM NO. 43N, 44W NAVD 88	VERTICAL	3.15.19 CHECKED	APPROVED
CITY DATUM	SCALE	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

CITY OF SPOKANE

DEPARTMENT OF PARKS AND RECREATION

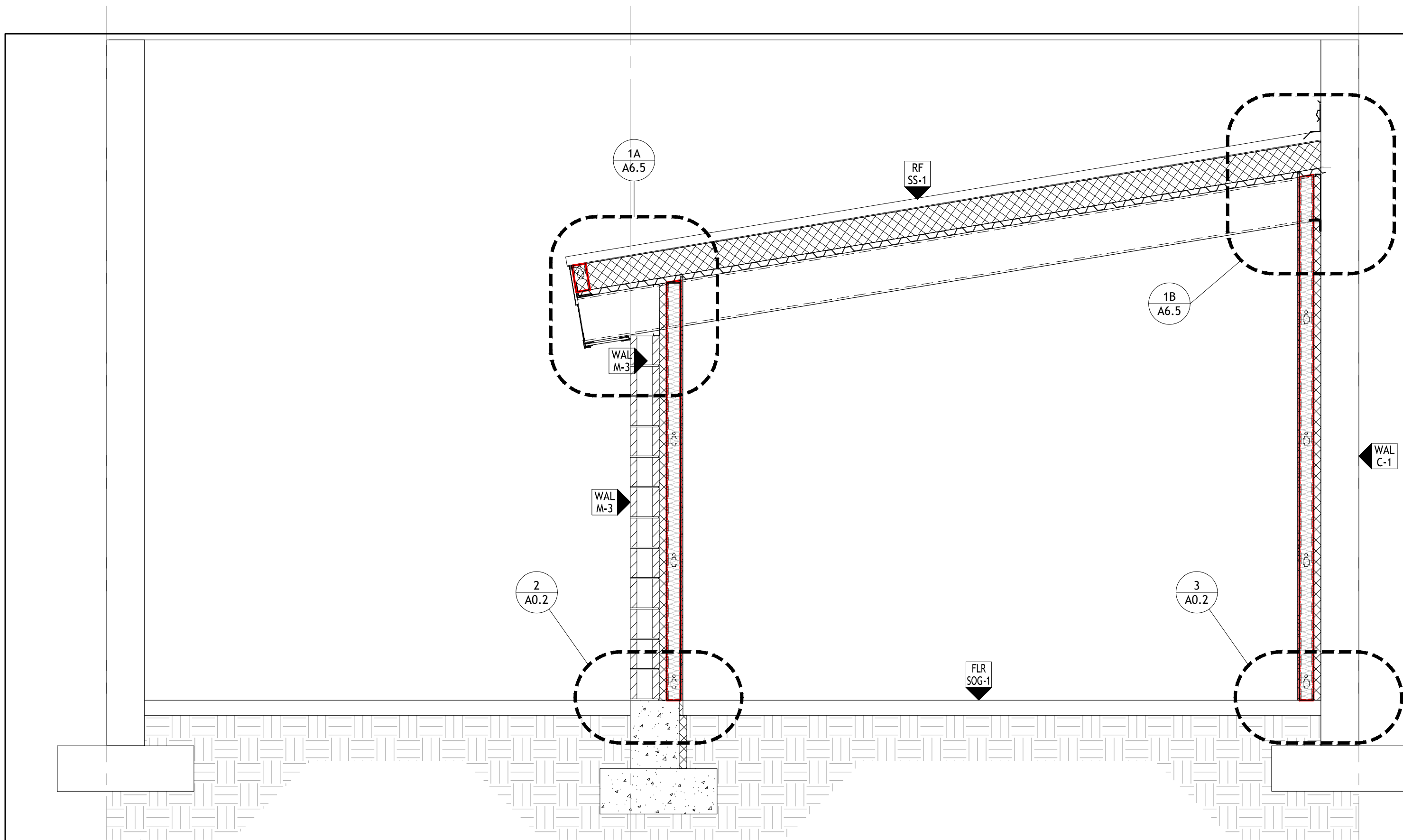
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-8200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: WALL SECTIONS AND DETAILS

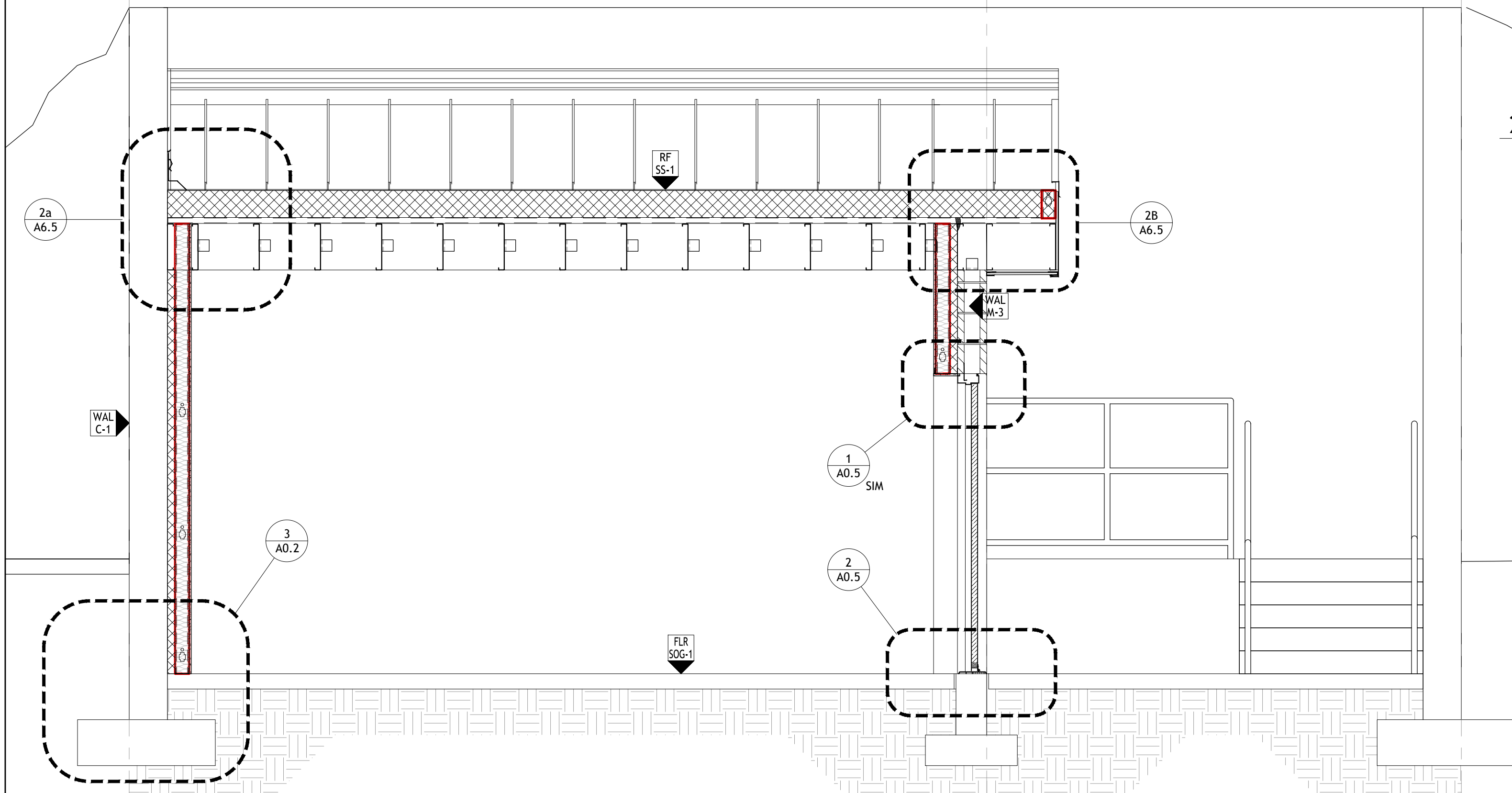
7.3.2019

DATE: Jun 28, 2019 - 9:06am by: ckilmer



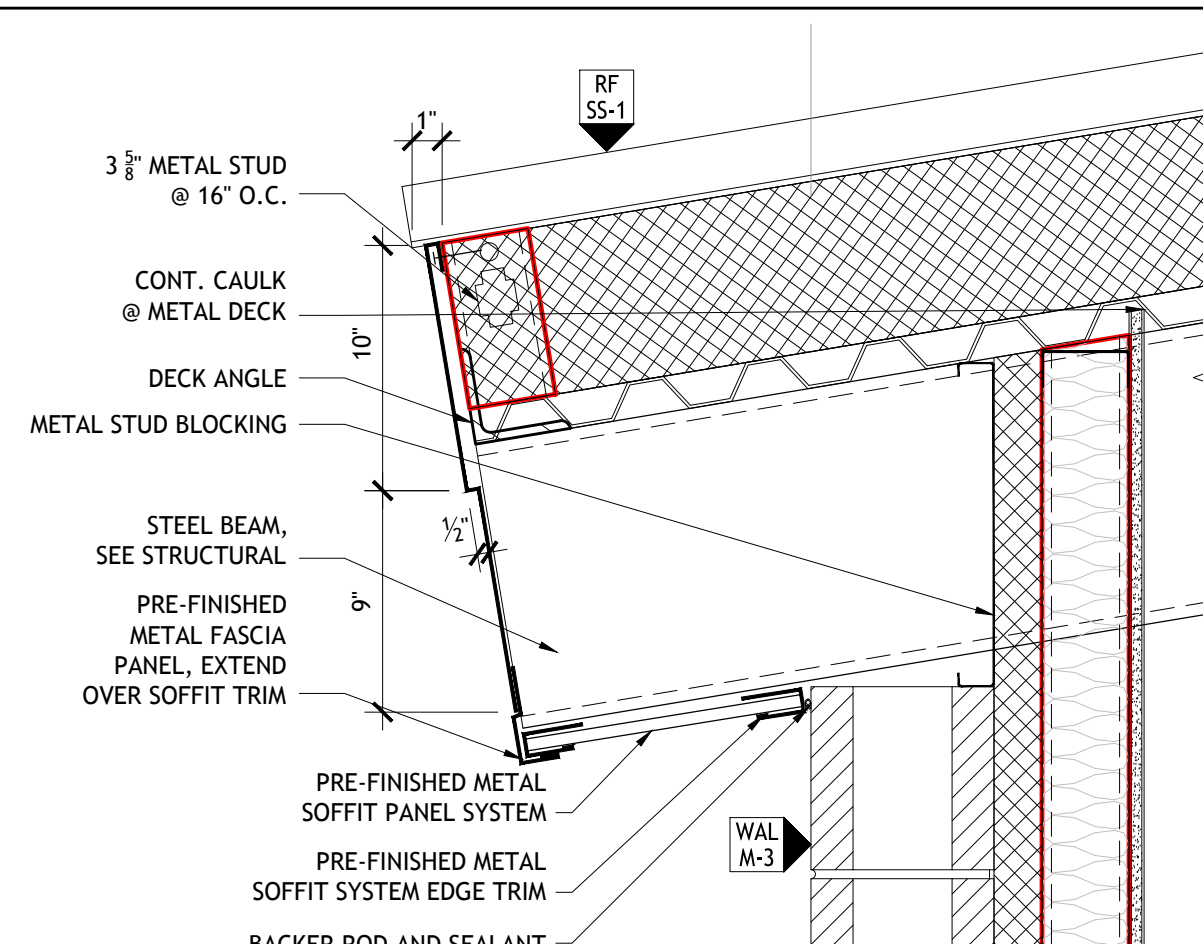
1 Building Section

SCALE: 1/2" = 1'-0"



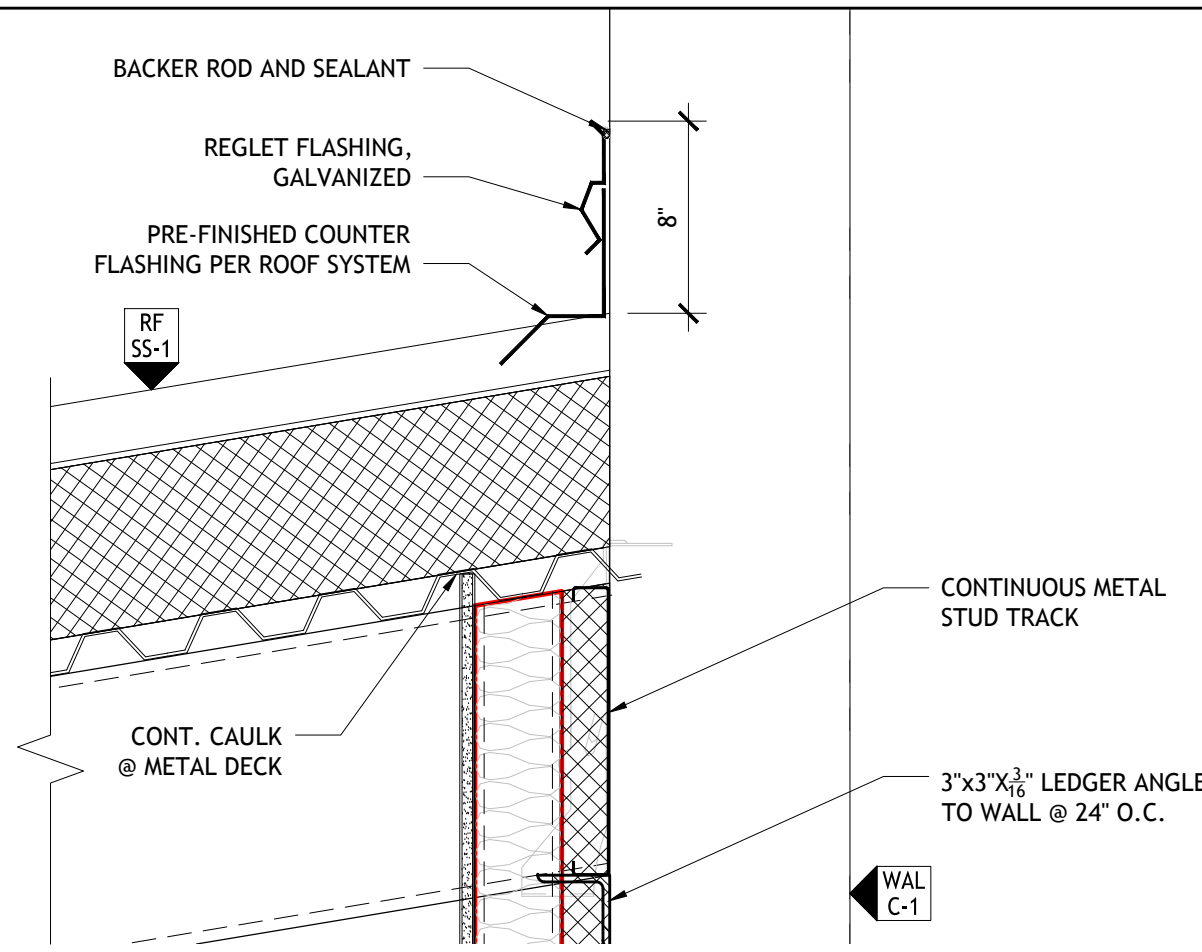
2 Building Section

SCALE: 1/2" = 1'-0"



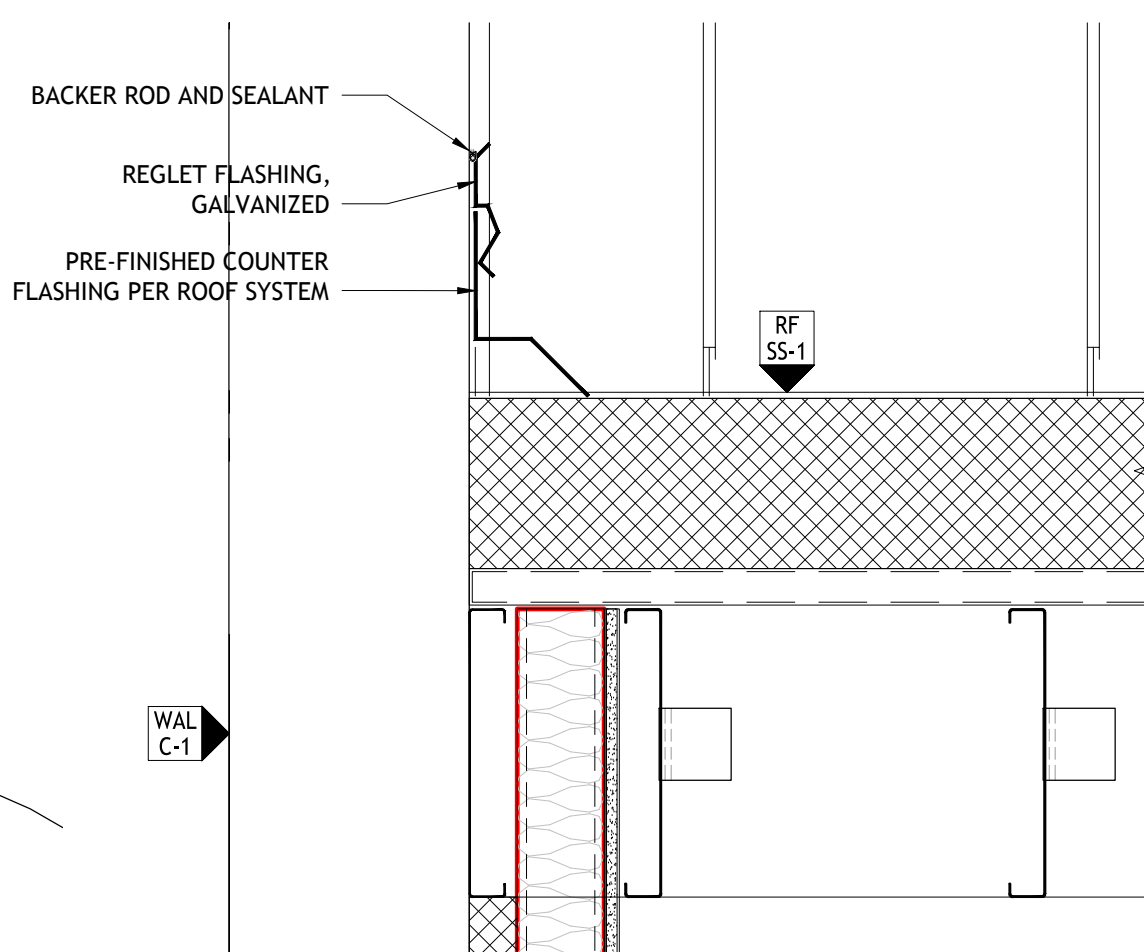
1A Eave Assembly - South

SCALE: 1 1/2" = 1'-0"



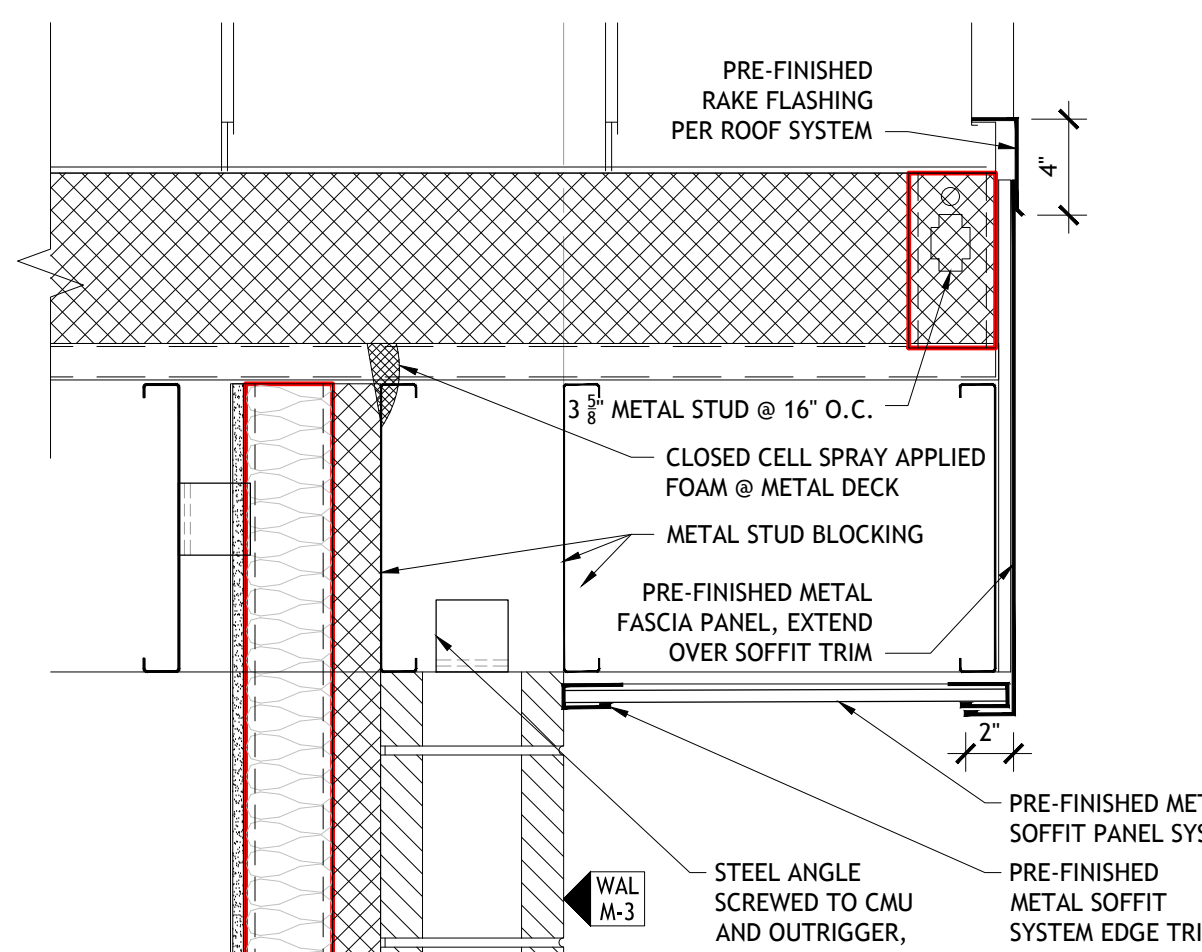
1B Roof @ Concrete Retaining Wall - North

SCALE: 1 1/2" = 1'-0"



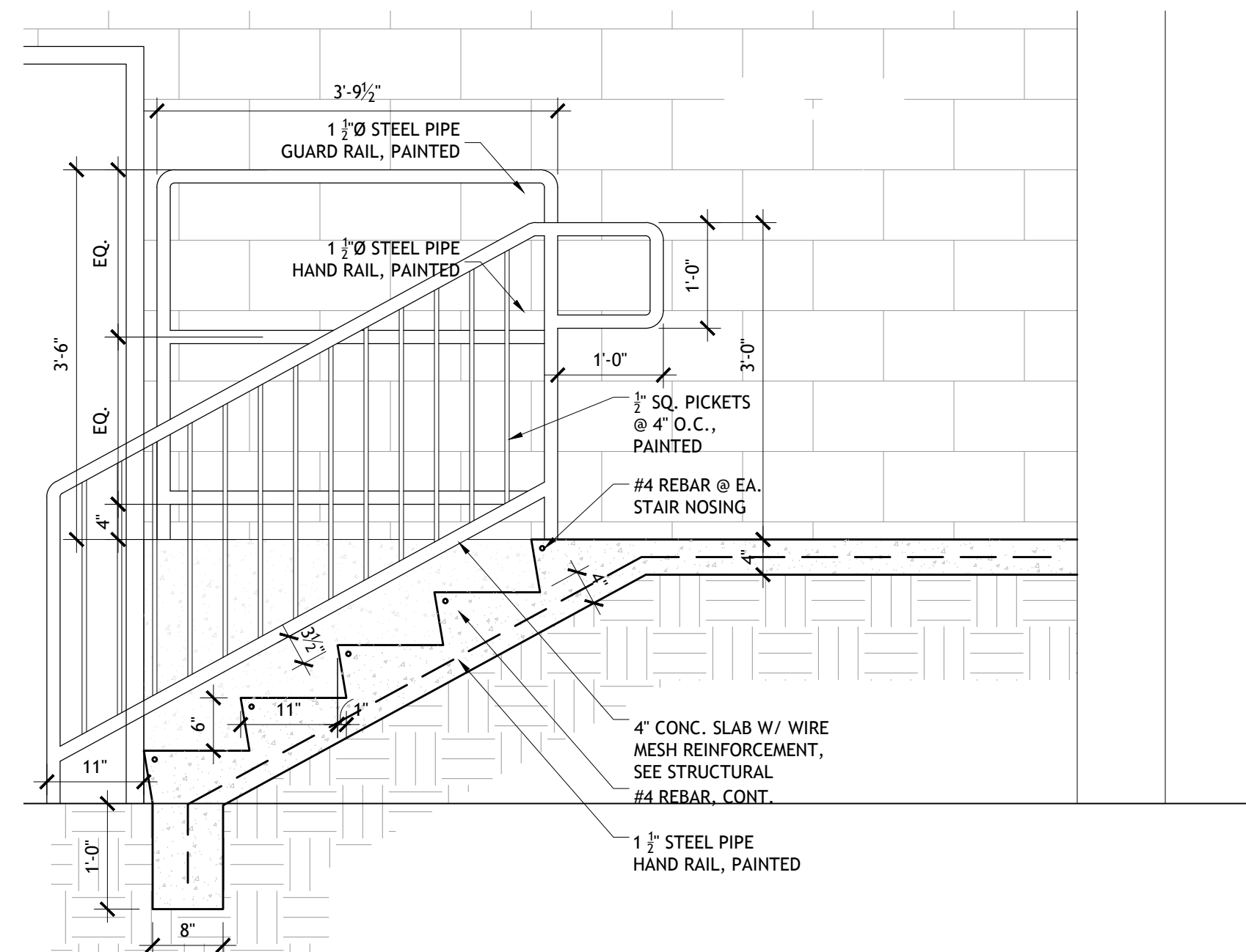
2A Roof @ Concrete Retaining Wall - West

SCALE: 1 1/2" = 1'-0"



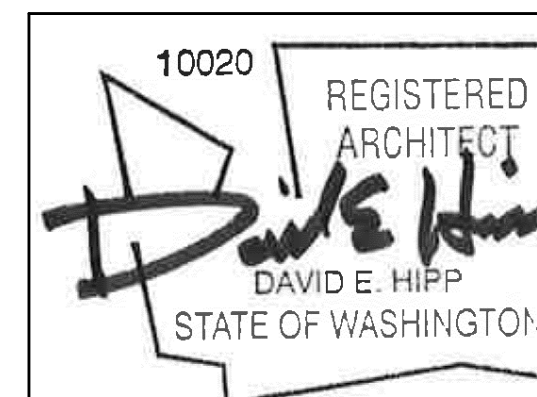
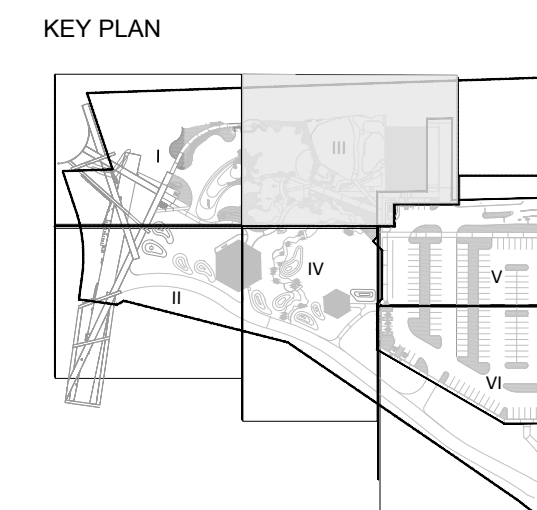
2B Eave Assembly - East

SCALE: 1 1/2" = 1'-0"



3 Stair Section

SCALE: 3/4" = 1'-0"



DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 6.5
PR. 27 OF 32	REVISION NO.
FILE NAME:	

BY	REVISIONS	DATE

B W A	BERNARDO WILLS
ARCHITECTS PC	

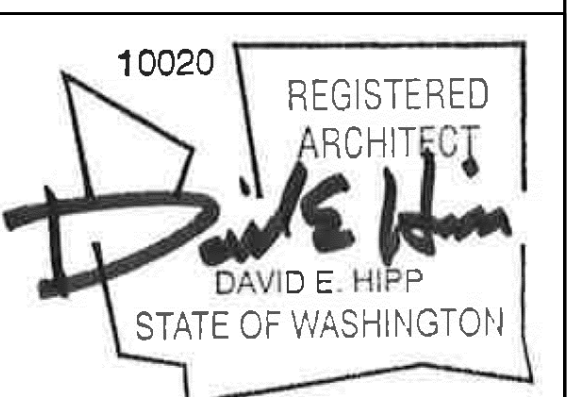
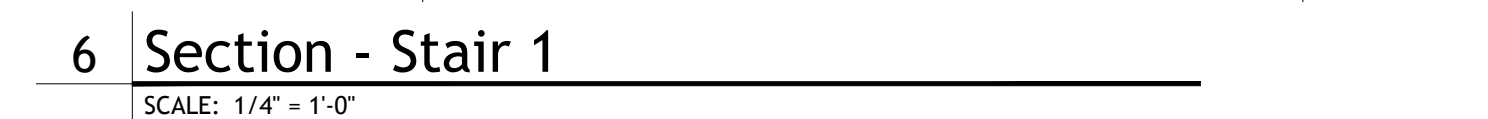
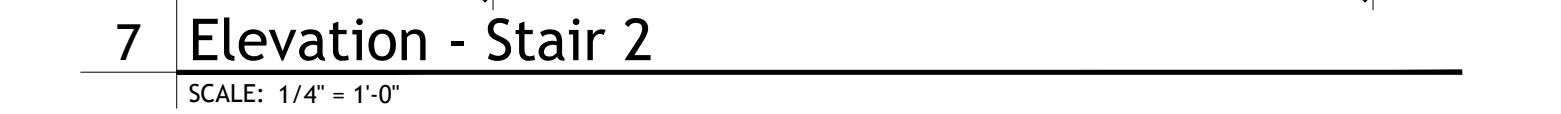
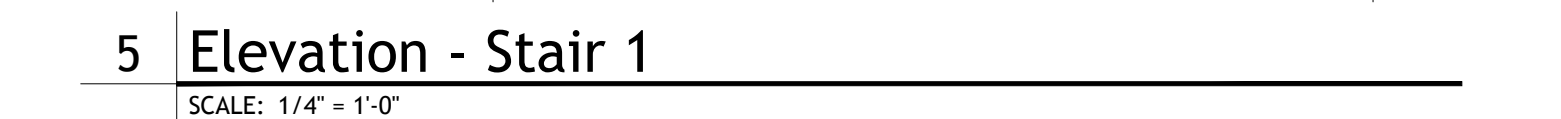
LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
8.15.19	DRAWN - CLK
8.15.19	DESIGNED/DH
CHECKED	APPROVED



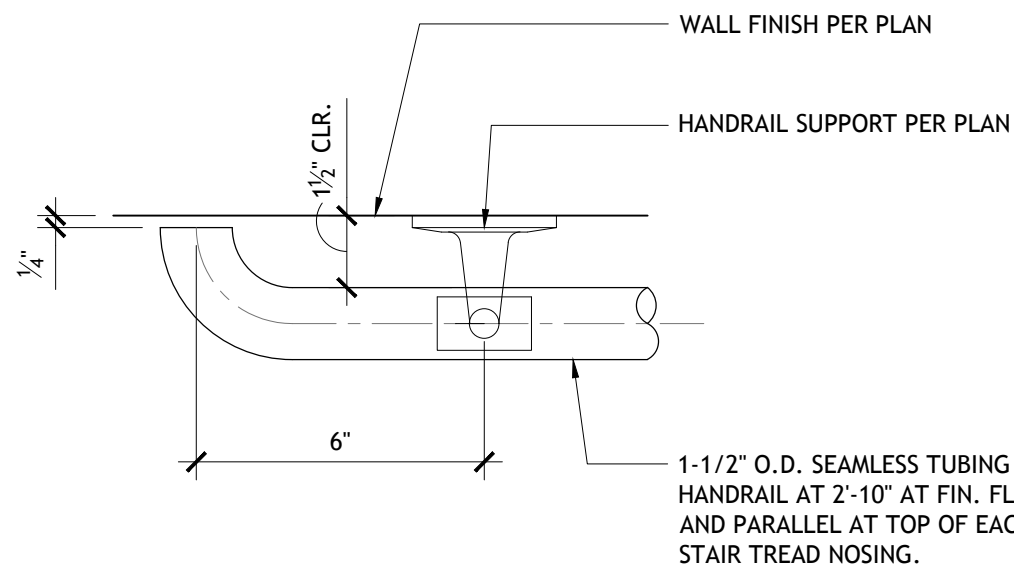
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	PUMP HOUSE BUILDING SECTIONS 7.3.2019
DATE: Jun 25, 2019 - 2:30pm by: ckilmer	



DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT: PARK	
CITY PURCHASING NUMBER	DRAWING NUMBER
	A 7.1
P#: 28 OF 32	REVISION NO.:
FILE NAME:	

[illegible]

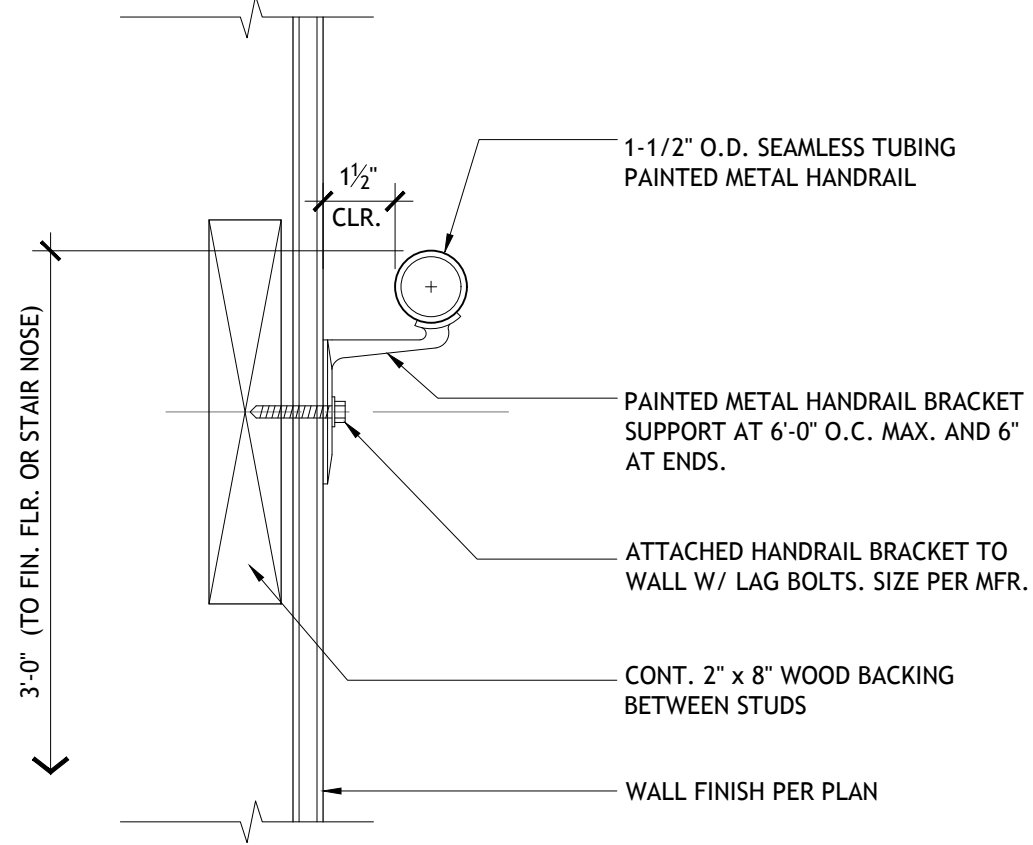


NOTE:
ALL HANDRAILS ARE REQUIRED TO EXTEND A MINIMUM OF 12" BEYOND THE TOP TREAD NOSING AND 12" PLUS THE TREAD WIDTH BEYOND THE BOTTOM TREAD NOSING.

1 Handrail @ Metal Framed Wall

SCALE: 3" = 1'-0"

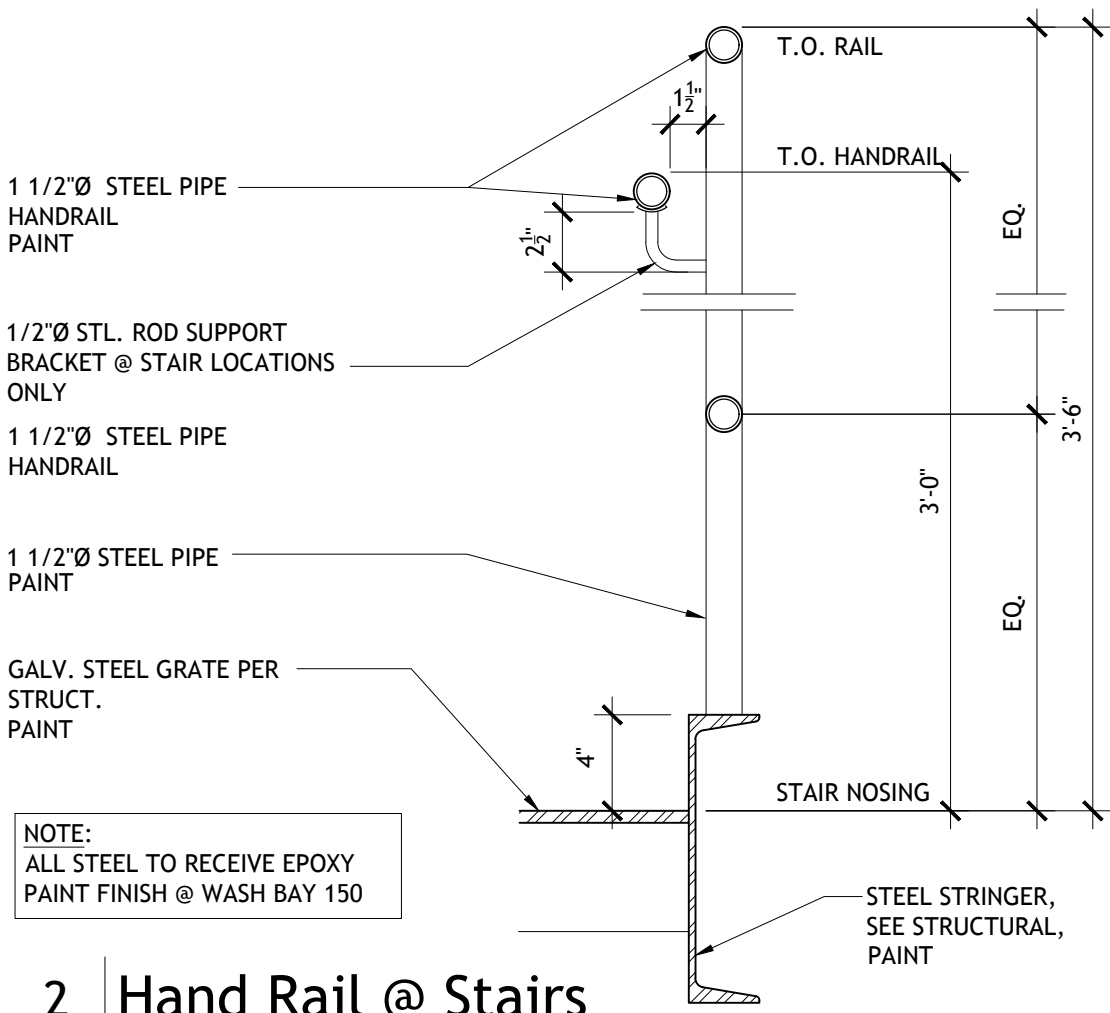
x08-200 D-098 STAIR



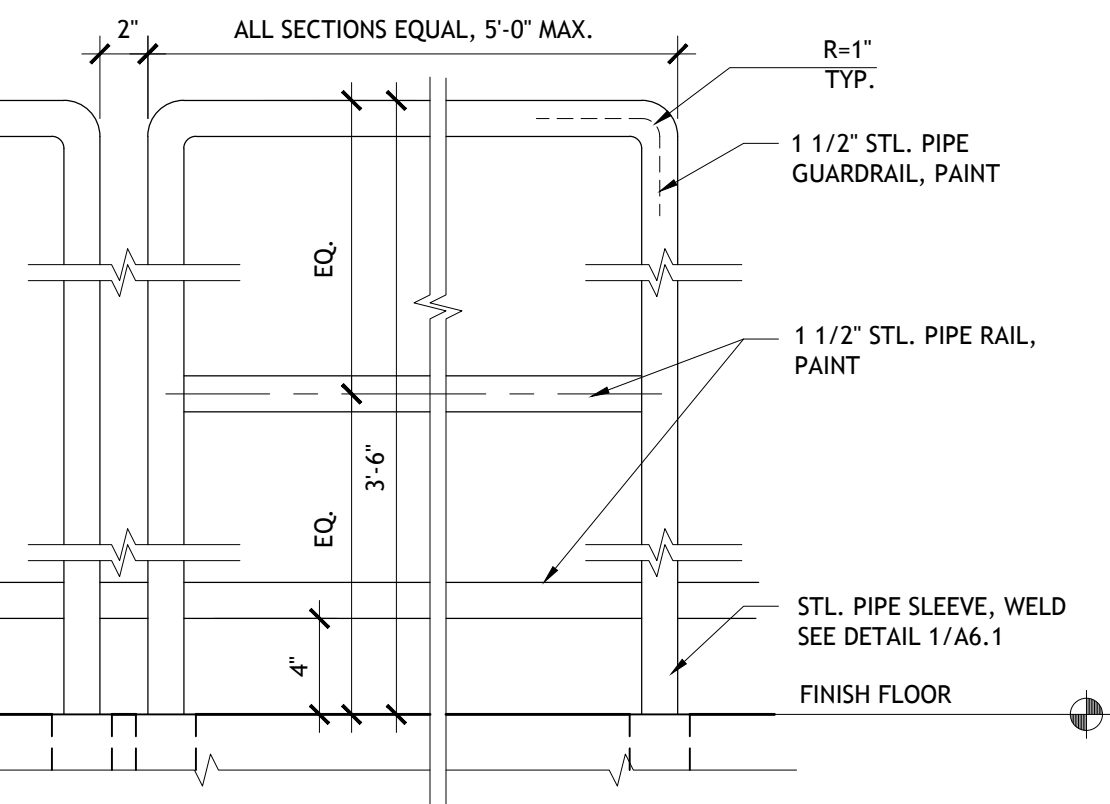
2 Hand Rail @ Stairs

SCALE: 1 1/2" = 1'-0"

x08-200 D-075 STAIR



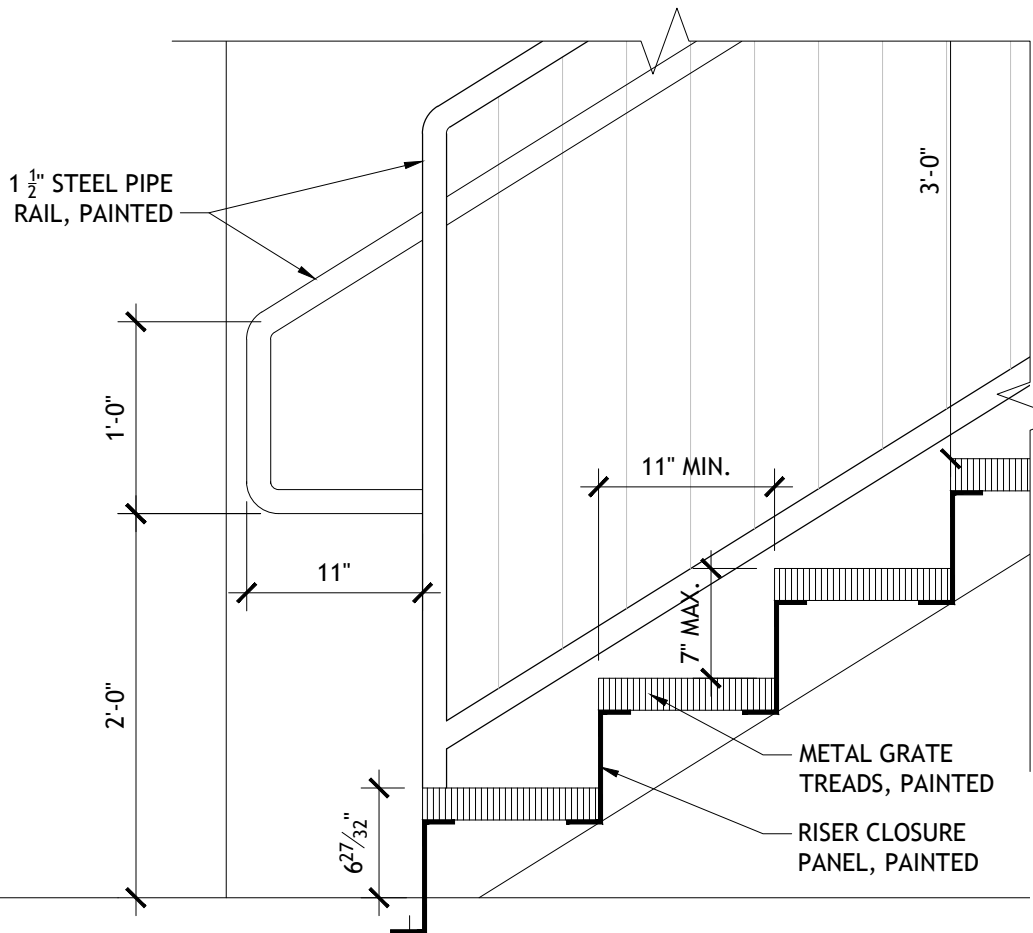
NOTE:
ALL STEEL TO RECEIVE EPOXY PAINT FINISH @ WASH BAY 150



3 Typical Guardrail Elevation

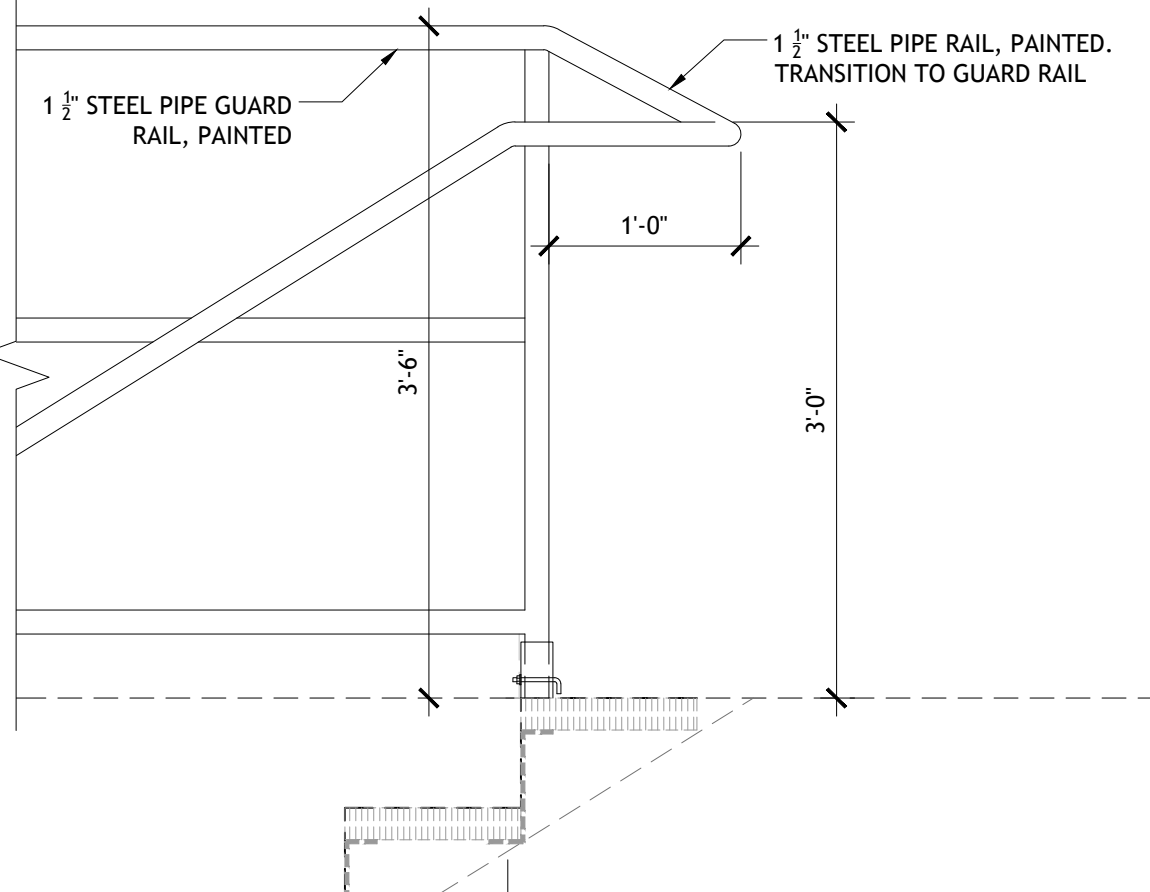
SCALE: 1 1/2" = 1'-0"

x08-200 D-070 STAIR RAILING



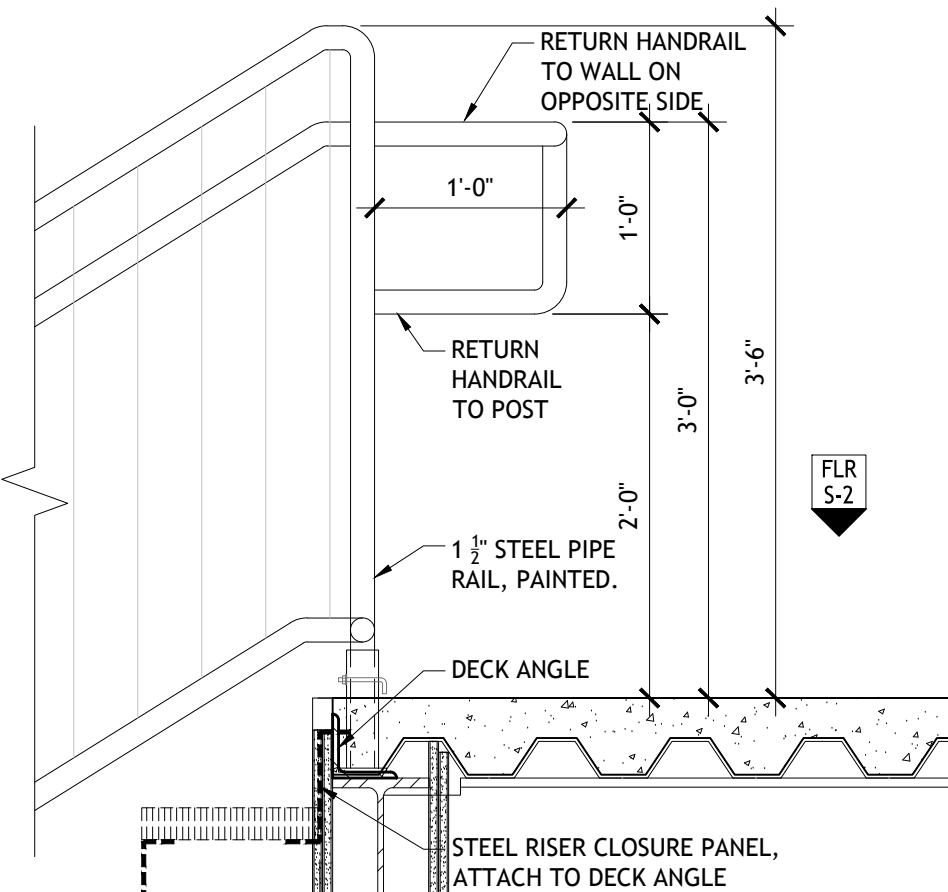
4 Hand Rail Return @ Stairs

SCALE: 1" = 1'-0"



5 Hand Rail Transition @ Stair 1

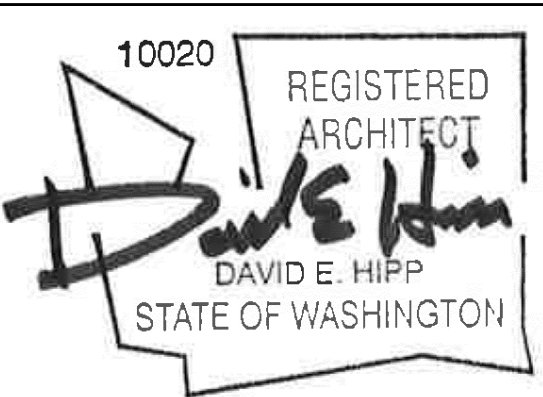
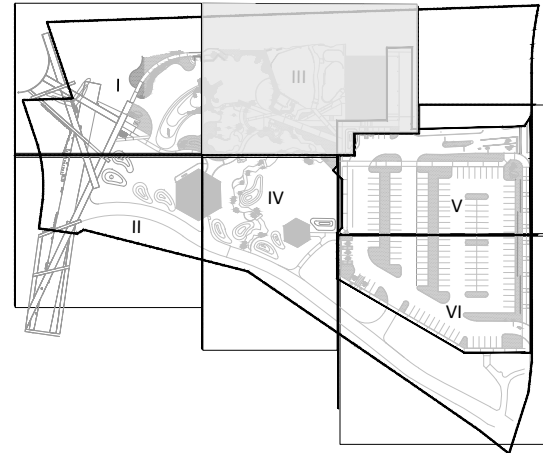
SCALE: 1" = 1'-0"



6 Hand Rail Transition @ Stair 2

SCALE: 1" = 1'-0"

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

A 7.2

FILE NAME:

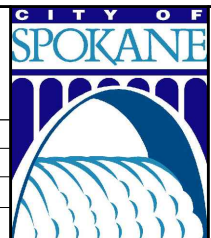
BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

3.15.18	DRAWN	CLK
3.15.18	DESIGNED	DH
	CHECKED	
	APPROVED	

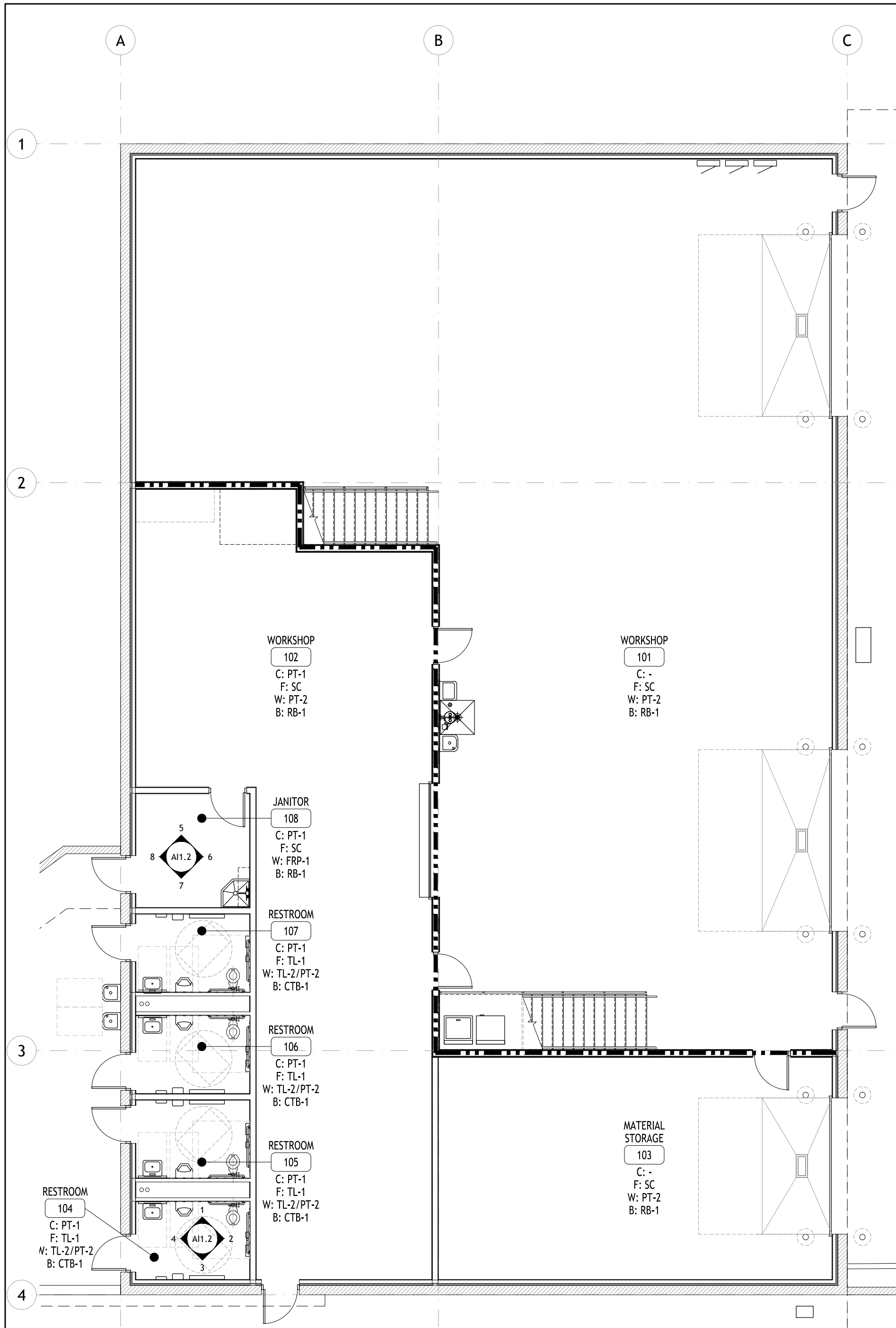


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

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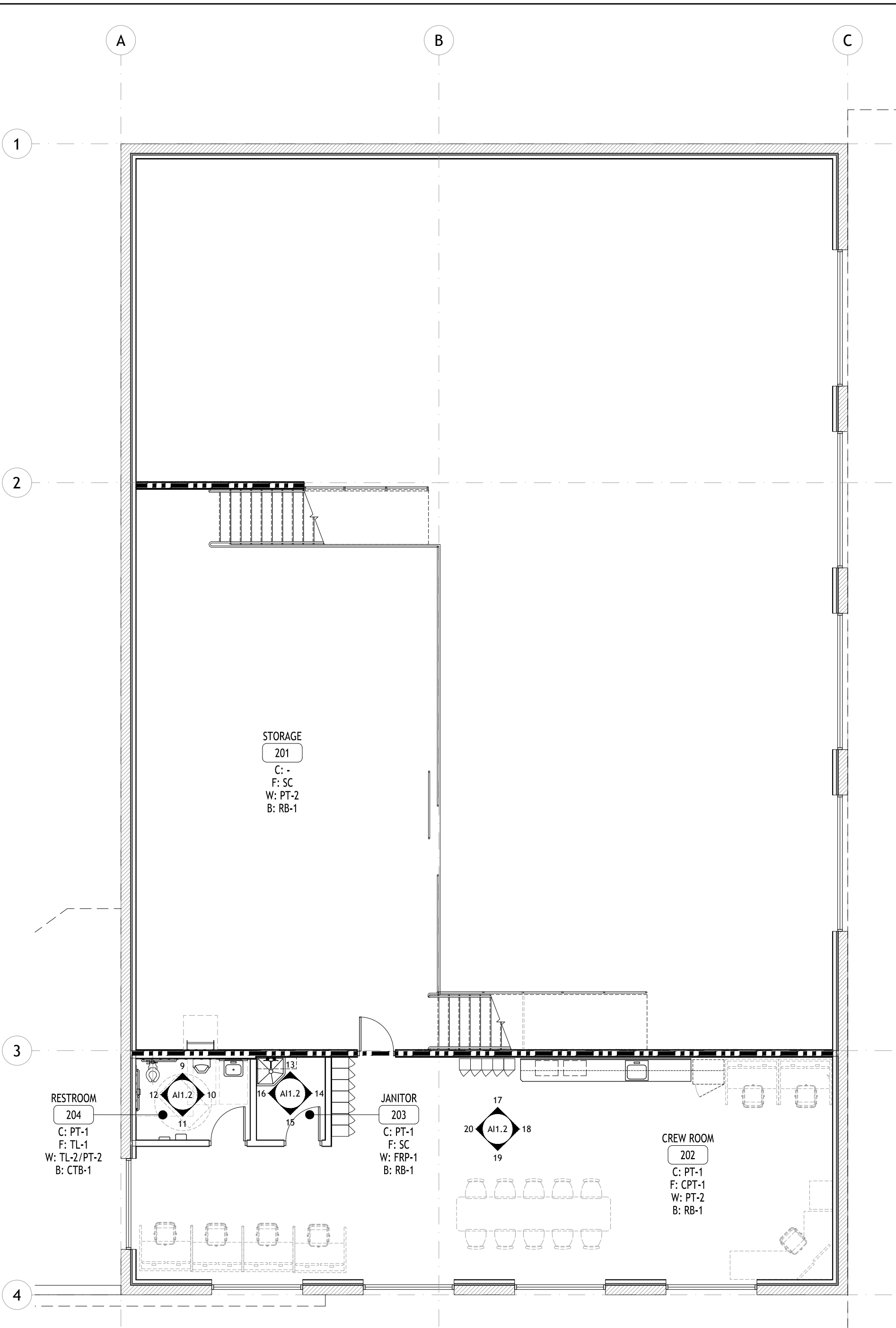
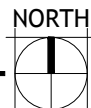
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: STAIR PLAN, SECTION AND DETAILS

7.3.2019
DATE: Jun 25, 2019 - 2:30pm by: ckilmer



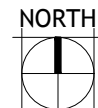
1 Finish Plan - Main Level

SCALE: 1/8" = 1'-0"



2 Finish Plan - Second Level

SCALE: 1/8" = 1'-0"



General Notes

- DO NOT SCALE DRAWINGS. REFER TO DIMENSIONS.
- REFERENCE SHEETS A12.1 & A12.2 FOR ROOM FINISH SCHEDULE & INFORMATION
- REFERENCE FINISH PLANS ON SHEETS A12.4 & A12.5 FOR INFORMATION AND EXTENTS OF FLOOR AND WALL FINISHES.
- REFERENCE REFLECTED CEILING PLANS ON SHEETS A2.6 & A2.7 FOR NFORMATION ON CEILING FINISHES, CLOUDS AND LOCATIONS.
- CONTRACTOR TO COORDINATE ELECTRICAL, DATA AND INTERNET LOCATIONS WITH OWNER AND EQUIPMENT/FURNISHINGS SUPPLIER.
- PROVIDE BACKING AT ALL UPPER CABINETS AND WALL MOUNTED EQUIPMENT LOCATIONS.
- ALL MECHANICAL GRILLES / DIFFUSERS TO BE PAINTED TO MATCH ADJACENT SURFACE, TYP.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL CASEWORK TO ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE EQUIPMENT LOCATIONS, CLEARANCES AND OTHER REQUIREMENTS WITH OWNER AND EQUIPMENT/FURNISHINGS SUPPLIER PRIOR TO CONSTRUCTION.
- REFER TO INTERIOR ELEVATIONS FOR ALL CASEWORK FINISHES AND LOCATIONS.
- ALL OUTSIDE CORNERS TO RECEIVE CORNER GUARDS, AND BE INSTALLED FROM TOP OF WALL BASE TO 4'-0" AFF, U.N.O.
- ALL DOOR FRAMES TO BE PAINTED PT-4 U.N.O. SEE DOOR SCHEDULE FOR DOOR AND RELITE FRAME TYPES AND DETAIL REFERENCES.
- ALL WALL FINISH TRANSITIONS TO OCCUR AT NEAREST INSIDE CORNER OR REVEAL JOINT, U.N.O.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON LOCATIONS OF FINISHES.
- ALIGN ALL FLOOR TILE, TILE WALL BASE AND WALL TILE GROUT JOINTS, U.N.O.

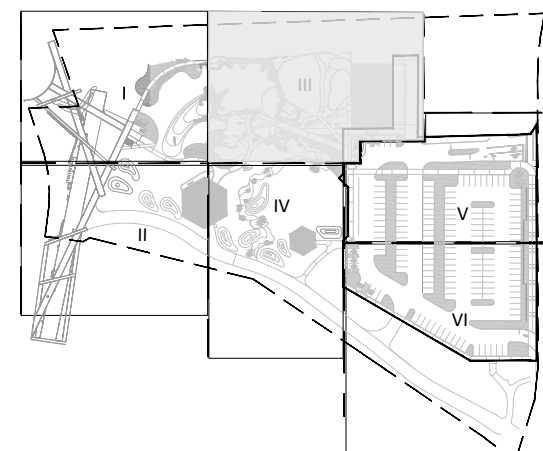
Room Lable Diagram

ROOM NAME
ROOM #
C: CEILING FINISH
F: FLOOR FINISH
W: WALL FINISH
B: BASE TYPE

Finish Legend

SEALED CONCRETE	
SC	NATURAL
CARPET TILE	
CPT-1	FIELD SHAW CONTRACT STYLE: PRIMARY TILE #5T123 COLOR: STORM CLOUD #17597 INSTALL: PER MFG RECOMMENDED ASHLAR METHOD
BASE	
RB-1	4" W/ TOE BURKE COLOR: ROCKY #660
CTB-1	6"x24" MATCH TL-2 WALL TILE FIELD CUT TO SIZE
PAINT	
PT-1	GENERAL PAINT SHERWIN WILLIAMS COLOR: ALABASTER #SW 7008
PT-2	ACCENT PAINT SHERWIN WILLIAMS COLOR: AMAZING GRAY #SW 7044
PT-3	ACCENT PAINT SHERWIN WILLIAMS COLOR: GAUNTLET GRAY #SW 7019
PLASTIC LAMINATE	
PLAM-1	COUNTER TOPS FORMICA NATURAL WEFT #5875-58
PLAM-2	BASE AND UPPER CABINETS FORMICA CITADEL WARP #5882-58
FIBERGLASS REINFORCED PLASTIC	
FRP-1	JANITOR WALLS MARLITE STYLE: P340N COLOR: MED GREY TRIM: SCHLUTER EDGE TRIM
TILE	
TL-1	PORCELAIN FLOOR TILE (24x24) DALTE STYLE: PORTFOLIO COLOR: IRON GREY #PF06 GROUT: LATICRETE / DUSTY GREY #60
TL-2	CERAMIC WALL TILE (4x16) DALTE STYLE: ELEVARE COLOR: LUNAR #EL40 INSTALL: STACKED GROUT: LATICRETE / BRIGHT WHITE #44

KEY PLAN



BY	REVISIONS	DATE

B W A BERNARDO WILLS	
ARCHITECTS PC	

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

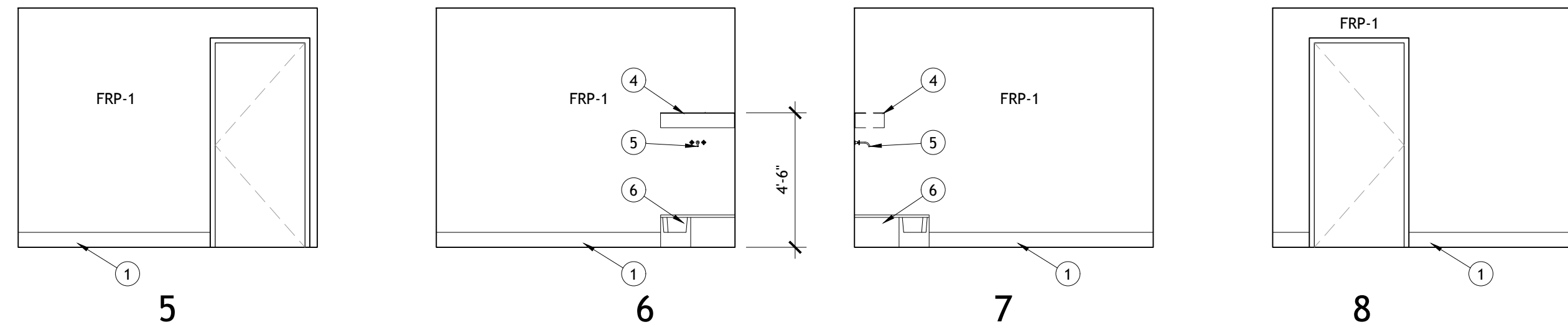
CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
3.15.19	DRAWN CLK
3.15.19	DESIGNED DH
CHECKED	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
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SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

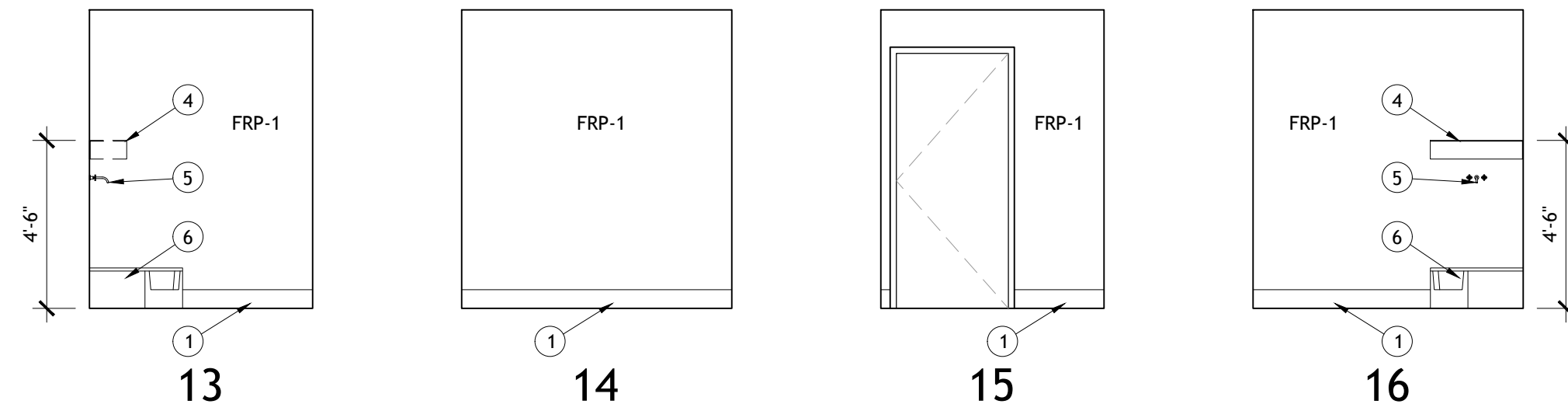
PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	FINISH PLAN
DATE:	7.3.2019
DATE: Jun 25, 2019 - 2:30pm	by: ckilmer

DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	AI 1.1
FILE NAME:	



-	<u>Janitor 108</u>
---	--------------------

SCALE: 1/4" = 1'-0"



- Janitor 203

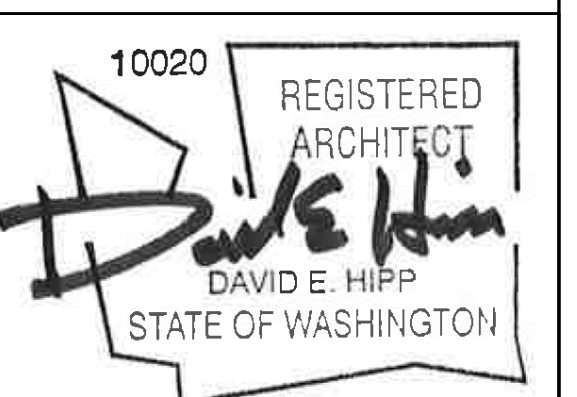
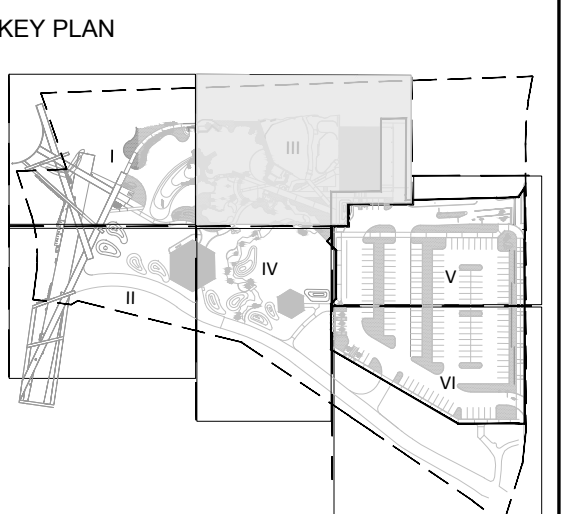
SCALE: 1/4" = 1'-0"



1. 6" RUBBER WALL BASE (COVE)
2. TILE BASE (COVE), ALIGN GROUT LINE W/ WALL AND FLOOR TILE
3. BULLNOSE TRIM
4. SHELF, T.O. SHELF @ +4'-6" A.F.F.
5. MOP FAUCET
6. MOP SINK
7. METAL LOCKERS, 12"x18"x36"
8. PLATFORM BASE FOR PERSONNEL LOCKERS, SEE DETAIL 3/A1.3
9. DRY FOOD LOCKERS
10. PLASTIC LAMINATE WINDOW SILL

Technical drawing of a window unit. The drawing shows a side view of a window assembly. The overall width is 7'-0" and the overall height is 6'-6". The unit is divided into two main sections. The left section is labeled PT-2 and has a height of 4'-4". The right section is also labeled PT-2 and contains a grid of 12 rectangular units, each labeled PT-2. The grid is 4 units wide and 3 units high. The units are arranged in two rows of six. The left section has a height of 4'-4" and a width of 3'-0". The right section has a height of 6'-6" and a width of 7'-0". The drawing includes callouts 1, 7, 8, and 10. Callout 1 points to the bottom left corner. Callout 7 points to the bottom left corner of the grid. Callout 8 points to the bottom right corner of the grid. Callout 10 points to the bottom right corner of the left section. The drawing is labeled 20 at the bottom center.

20

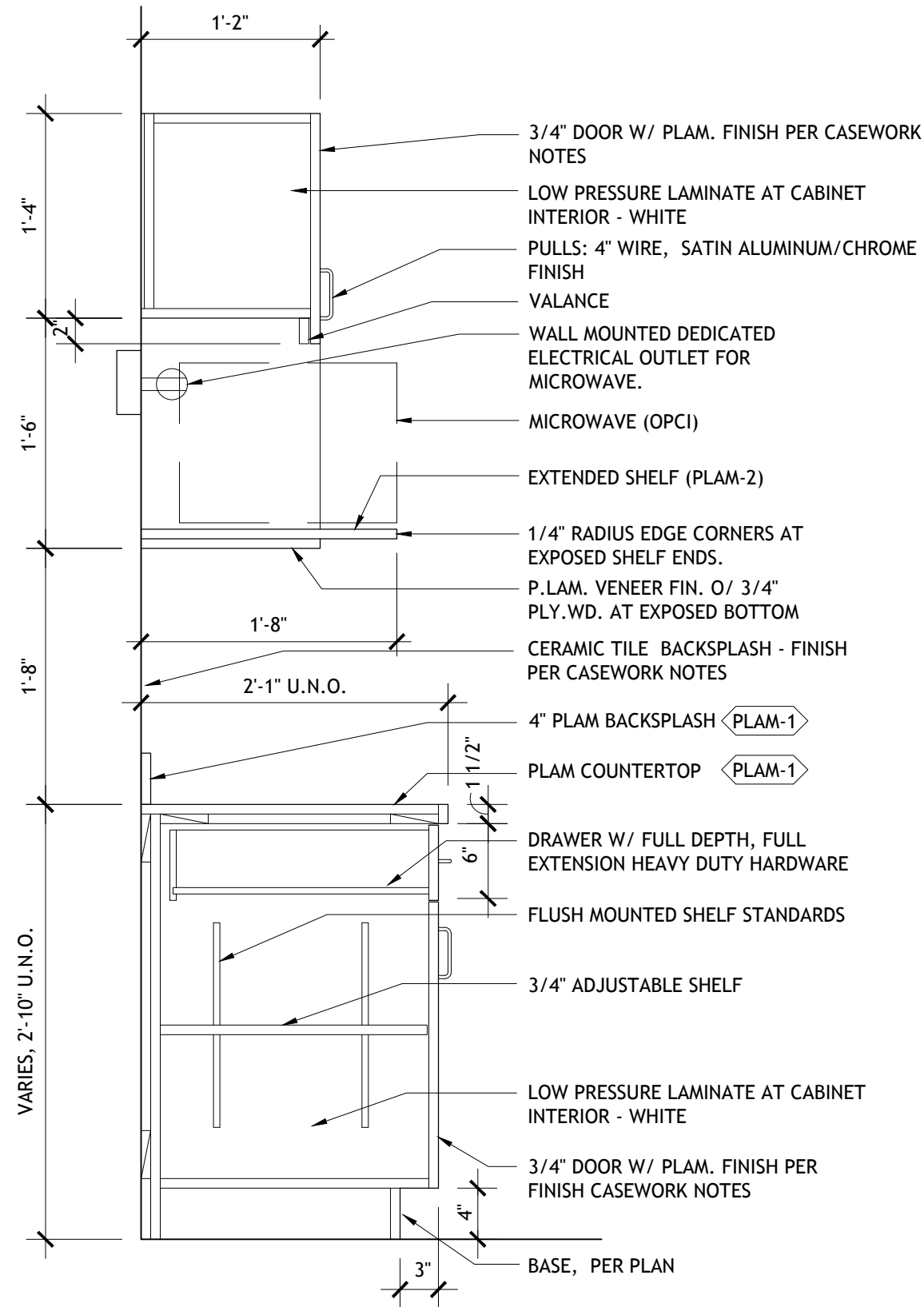


AI 1.2

P#:	31	OF	32	REVISION NO.:
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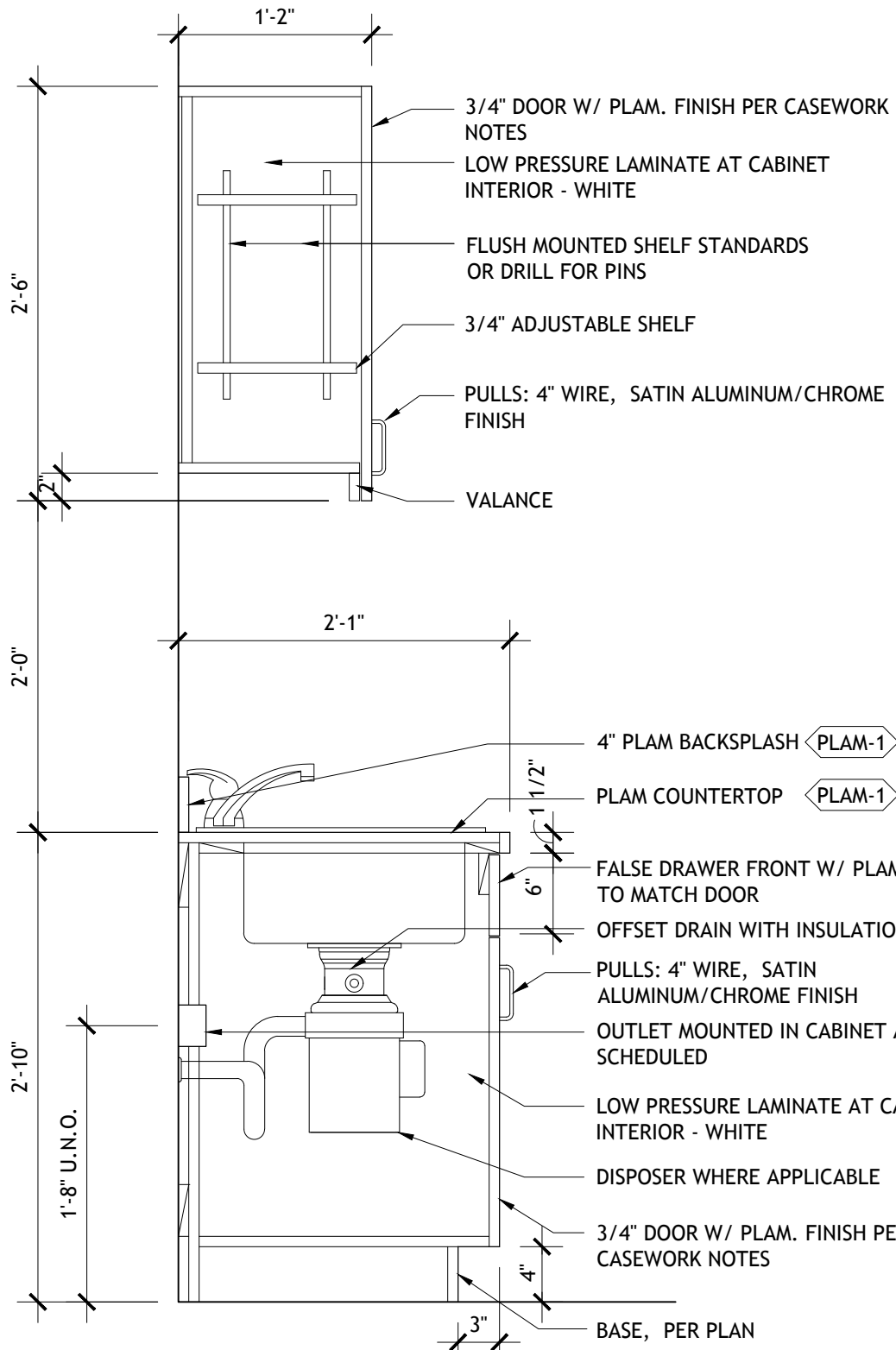
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DATE: Jun 25, 2019 - 2:30pm by: ckilmer



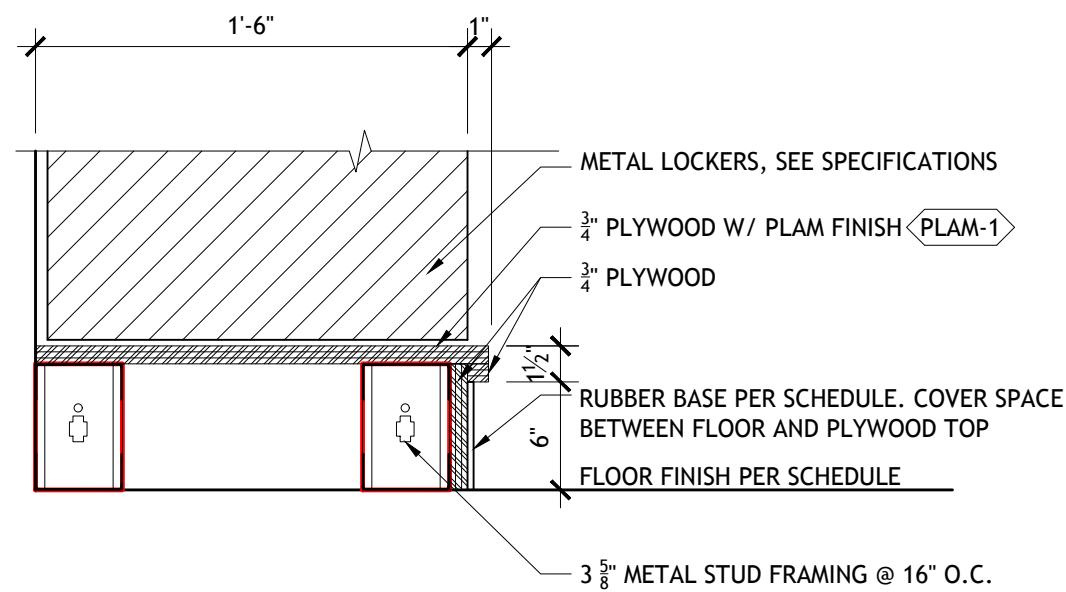
1 BASE/UPPER CABINET - MICROWAVE

SCALE: 1" = 1'-0" x13-200h D013



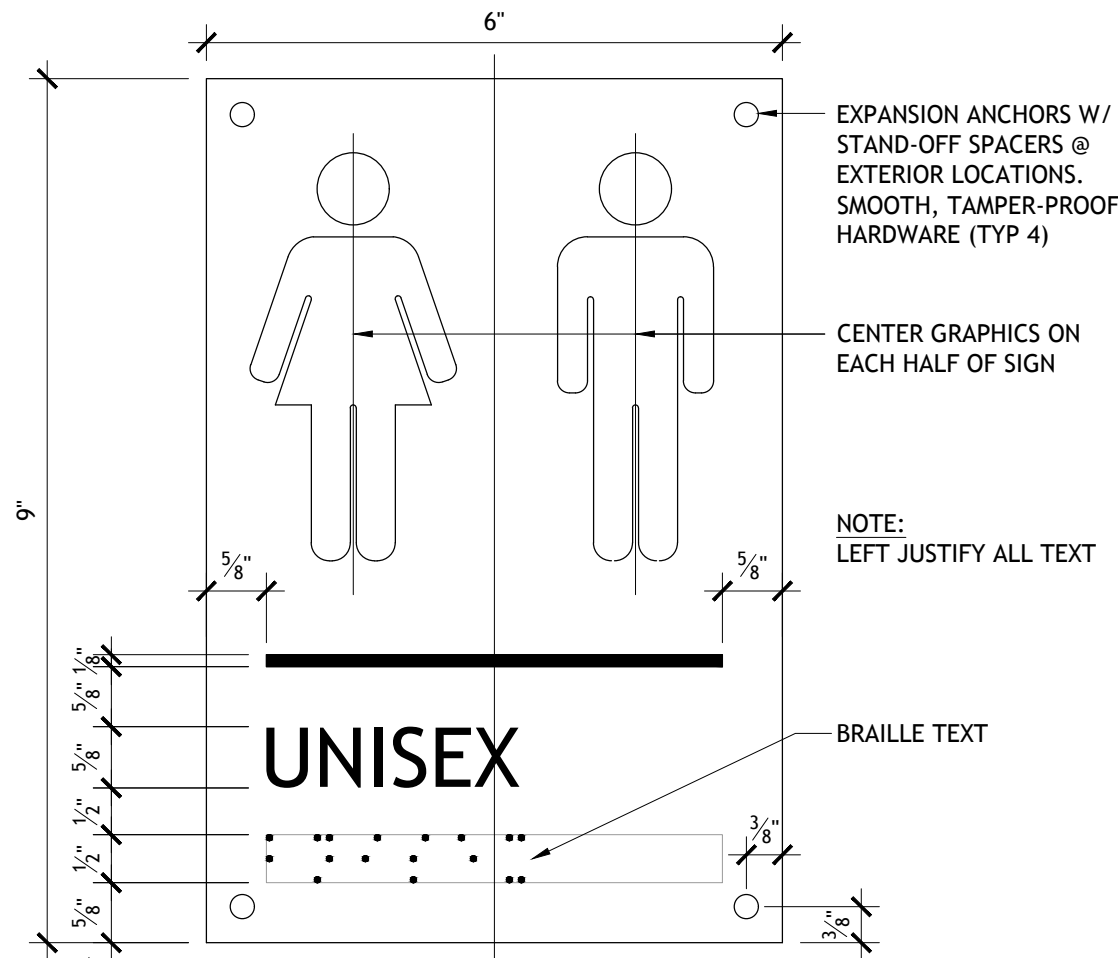
2 BASE/UPPER CABINET - SINK

SCALE: 1" = 1'-0"



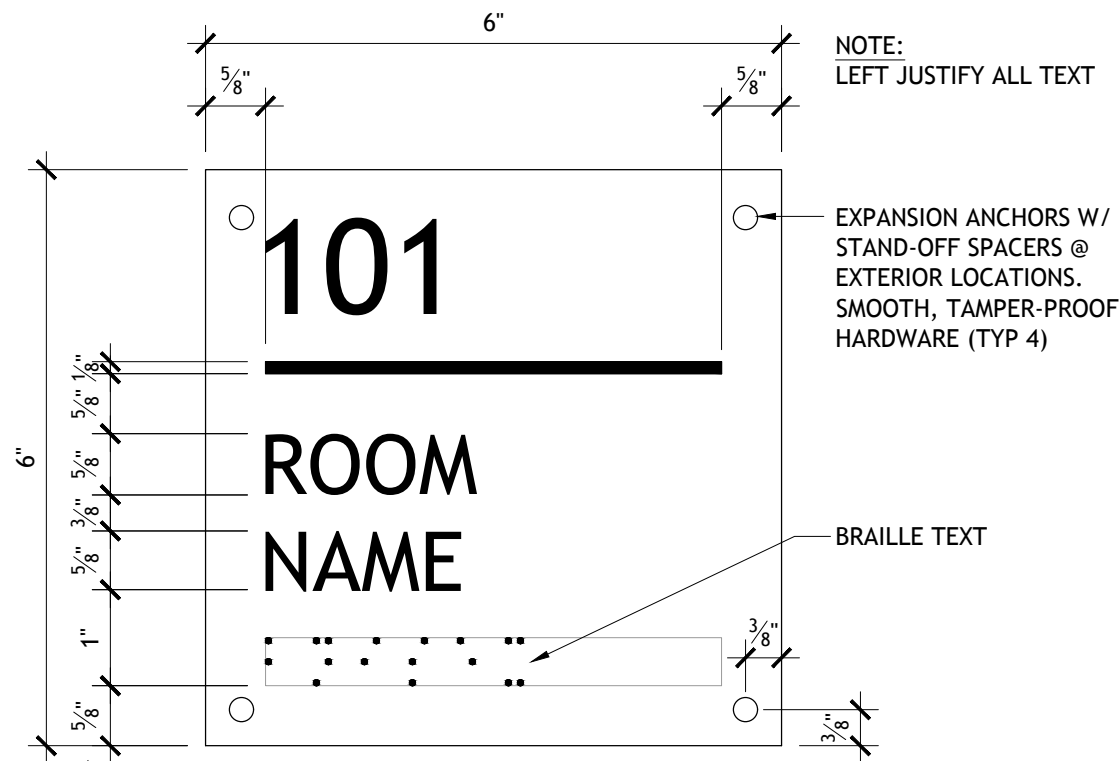
3 LOCKER BASE DETAIL

SCALE: 1-1/2" = 1'-0"



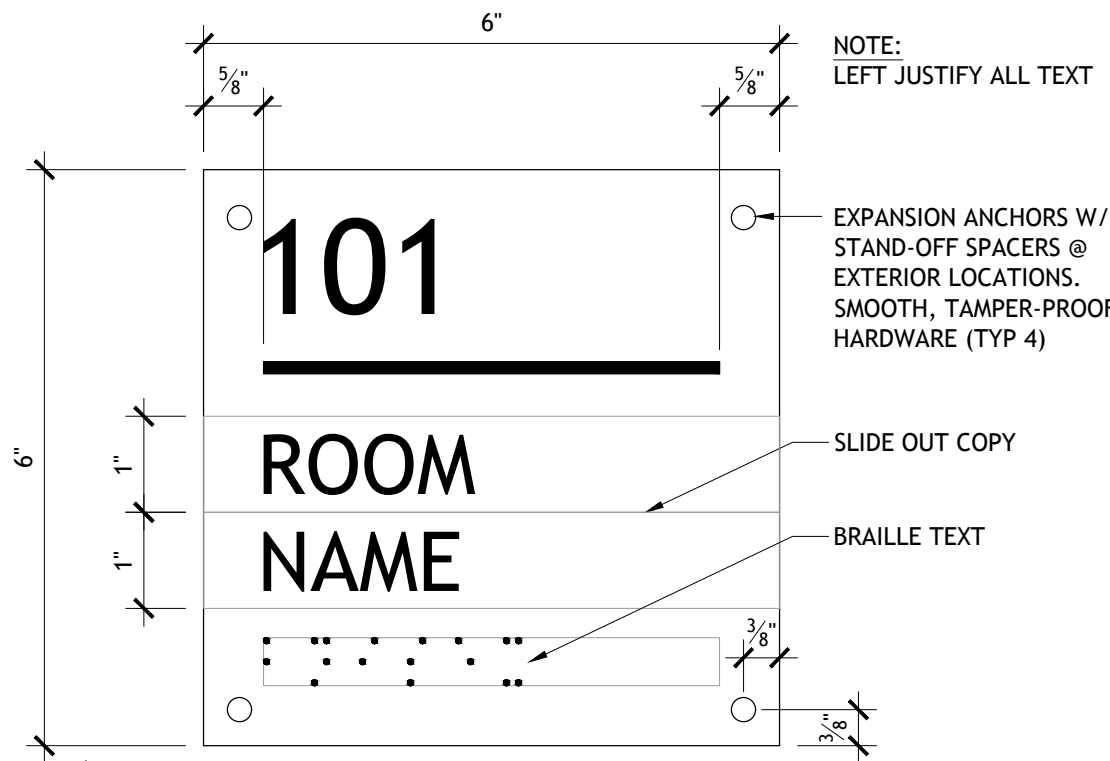
4 Typical Restroom Sign Layout

SCALE: 6" = 1'-0"



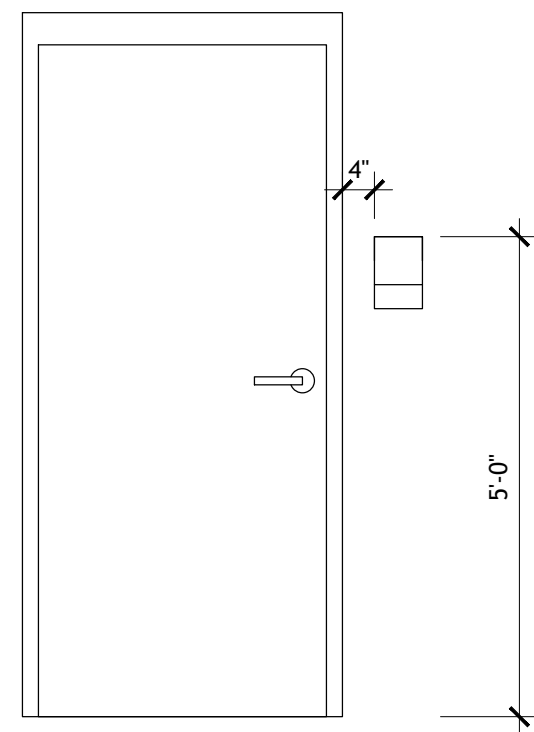
5 Typical Room Sign Layout

SCALE: 6" = 1'-0"



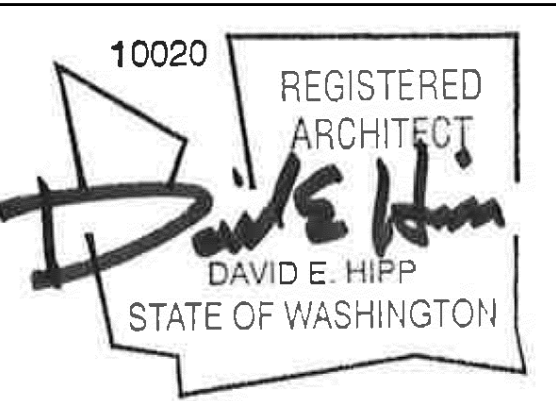
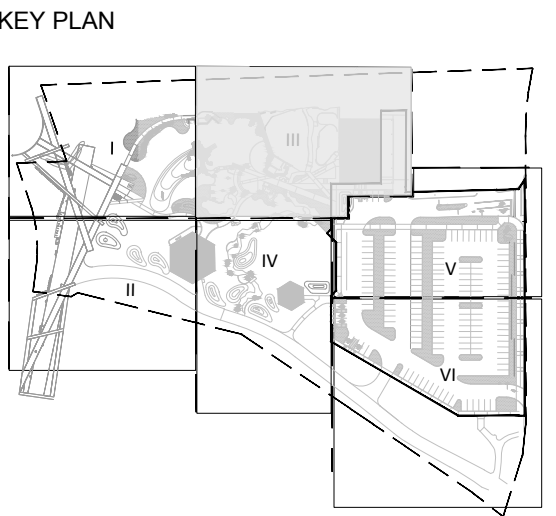
6 Typical Room Sign Layout - Slide Out

SCALE: 6" = 1'-0"



7 Typical Sign Location

SCALE: 1/2" = 1'-0"



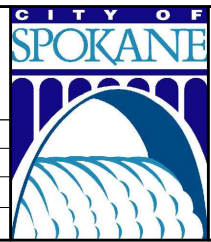
DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	AI 1.3
PK: 32 OF 32	REVISION NO.:
FILE NAME:	

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION BRASS CAP #CP9 N50002.85 E20081.44 (WGS 84) NOTE: FOR CONVERSION TO HISTORICAL CITY DATUM ADD 13.13'	
ELEVATION 1734.64' @ CAP #CP9	HORIZONTAL
CBM NO. 43N, 44W NAVD 88	VERTICAL
CITY DATUM	SCALE

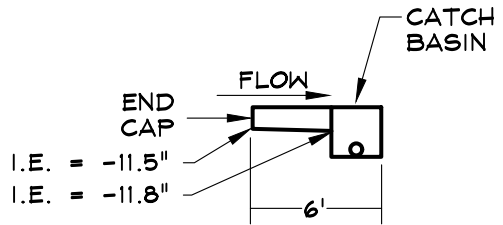
CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
3.15.19 DRAWN CLK	3.15.19 DESIGNED DH
3.15.19 CHECKED	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	INTERIOR DETAILS
DATE:	7.3.2019
DATE: Jun 25, 2019 - 2:30pm	by: ckilmer

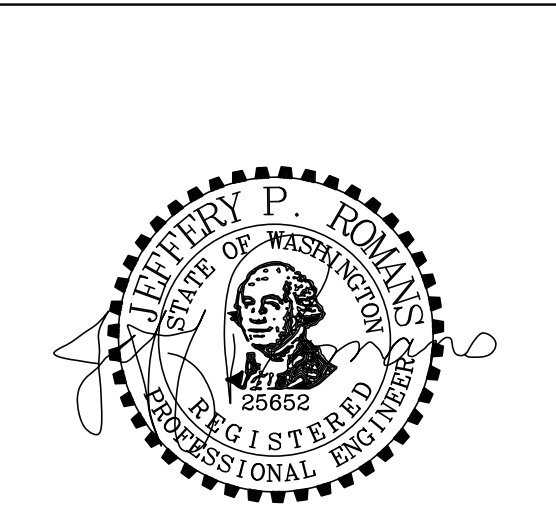
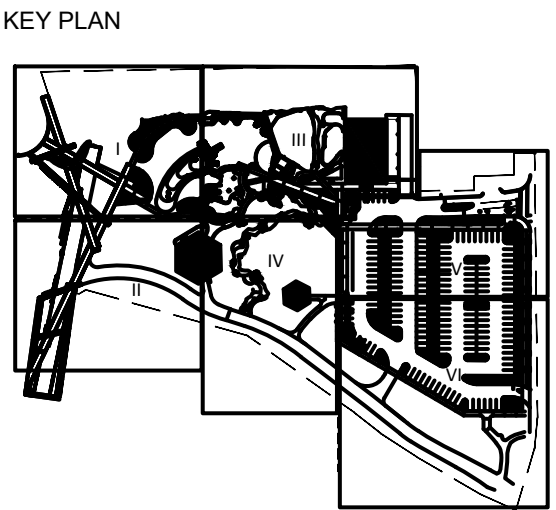
GENERAL NOTES:
1. REFER TO PLUMBING FIXTURE SCHEDULE FOR
BRANCH PIPE SIZES.



1 TRENCH DRAINS
NOT TO SCALE

MECHANICAL LEGEND

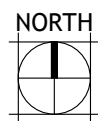
—T—	TEPID WATER	⊕	THERMOSTAT	
—G—	NATURAL GAS	—+—	CONTINUATION OF PIPING	
—S—	SANITARY SEWER	—+—	STRAINER	
—W—	WASTE LINE ABOVE GRADE	—+—	SAFETY VALVE	
—W—	WASTE LINE BELOW GRADE	—+—	THERMOMETER WELL	
—V—	VENT PIPING	—+—	DUCT TURNING VANES	
—D—	DOMESTIC COLD WATER	—+—	MOTORIZED DAMPER	
—D—	DOMESTIC HOT WATER	—+—	MANUAL DAMPER	
—D—	DOMESTIC HOT WATER RECIRC.	—+—	FLEXIBLE CONNECTION	
—D—	DRAIN LINE	—+—	FIRE DAMPER	
—RL—	REFRIGERANT LIQUID	—+—	SOUND LINED DUCT (NET INSIDE DIMENSION)	
—RS—	REFRIGERANT SUCTION	—+—	SOUND LINED DUCT (NET INSIDE DIMENSION)	
IE	INVERT ELEVATION	—+—	ROUND SUPPLY DUCT	
VTR	VENT THRU ROOF	—+—	RECTANGULAR SUPPLY DUCT	
CO	CLEANOUT	—+—	RECTANGULAR RETURN DUCT	
COTF	CLEANOUT THRU FLOOR	—+—	RECTANGULAR EXHAUST DUCT	
COTG	CLEANOUT TO GRADE	—+—	OVAL SUPPLY DUCT	
COTW	CLEANOUT THRU WALL	—+—	SMOKE DAMPER	
RD	ROOF DRAIN	—+—	ROUND DUCT	
FD	FLOOR DRAIN	—+—	MATCH LINE	
HB	HOSE BIBB	—+—	PLAN NOTE	
SF	SUPPLY FAN	—+—	DETAIL DESIGNATION	
CC	COOLING COIL	—+—	DETAIL NUMBER	
PH	PREHEAT COIL	—+—	SHEET ON WHICH DETAIL IS DRAWN	
F	FINAL FILTER	—+—	D14	DIFFUSER DESIGNATION
PF	PRE-FILTER	—+—	325	SUPPLY CFM
RPBP	REDUCED PRES. BACKFLOW PREVENTER	—+—	OR	
EF	EXHAUST FAN	—+—	D14-325	
HU	HUMIDIFIER	—+—	G16	GRILLE DESIGNATION
WH	WALL HYDRANT	—+—	405	SUPPLY OR RETURN CFM
SA	SOUND ATTENUATOR	—+—	OR	
SP	SUMP PUMP	—+—	G16-405	
TYP	TYPICAL	—+—		
TEE DOWN	TEE DOWN	—+—		
TEE UP	TEE UP	—+—		
ELBOW DOWN	ELBOW DOWN	—+—		
ELBOW UP	ELBOW UP	—+—		
ROUND FLOOR DRAIN	ROUND FLOOR DRAIN	—+—		
SQUARE FLOOR DRAIN	SQUARE FLOOR DRAIN	—+—		
PUMP	PUMP	—+—		
CHECK VALVE (FLOW TO RIGHT)	CHECK VALVE (FLOW TO RIGHT)	—+—		
CHECK VALVE (FLOW TO LEFT)	CHECK VALVE (FLOW TO LEFT)	—+—		
BALL VALVE	BALL VALVE	—+—		
FLOW FITTING (CIRCUIT SETTER)	FLOW FITTING (CIRCUIT SETTER)	—+—		
UNION	UNION	—+—		
PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE	—+—		
GAS COCK	GAS COCK	—+—		
FLEXIBLE PIPE CONNECTOR	FLEXIBLE PIPE CONNECTOR	—+—		
PRESSURE GAUGE	PRESSURE GAUGE	—+—		
THERMOMETER	THERMOMETER	—+—		
CLEANOUT	CLEANOUT	—+—		
CAPPED END	CAPPED END	—+—		
WALL HYDRANT	WALL HYDRANT	—+—		



DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	M2.1
PR:	OF:
DATE: Jun 27, 2019 - 10:49am	REVISION NO.:
FILE NAME:	

Foundation Plumbing Plan

SCALE: 1/8" = 1'-0"



BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCHMARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

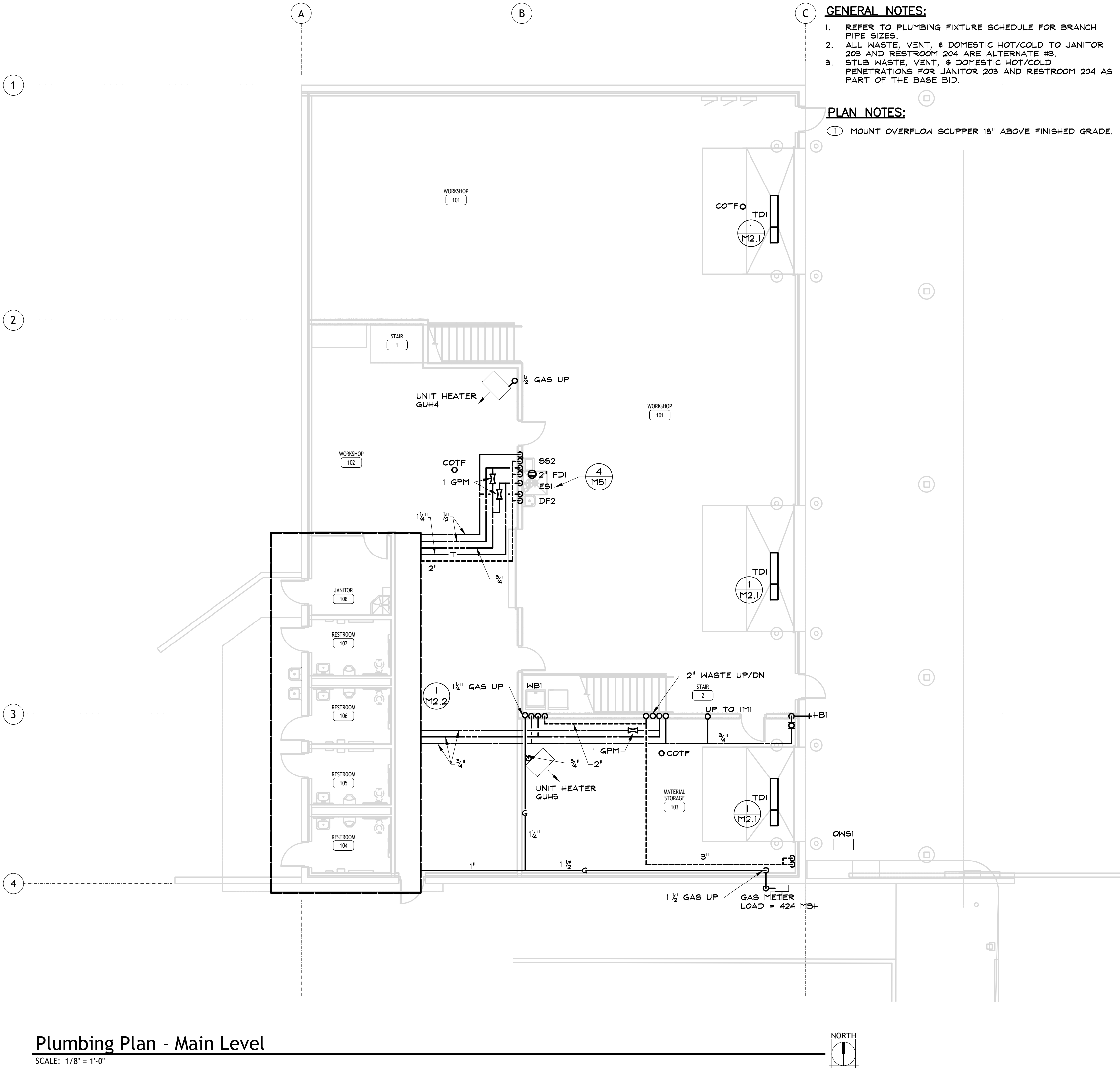
CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
5.3.19	DRAWN SKS
5.3.19	DESIGNED JPR
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

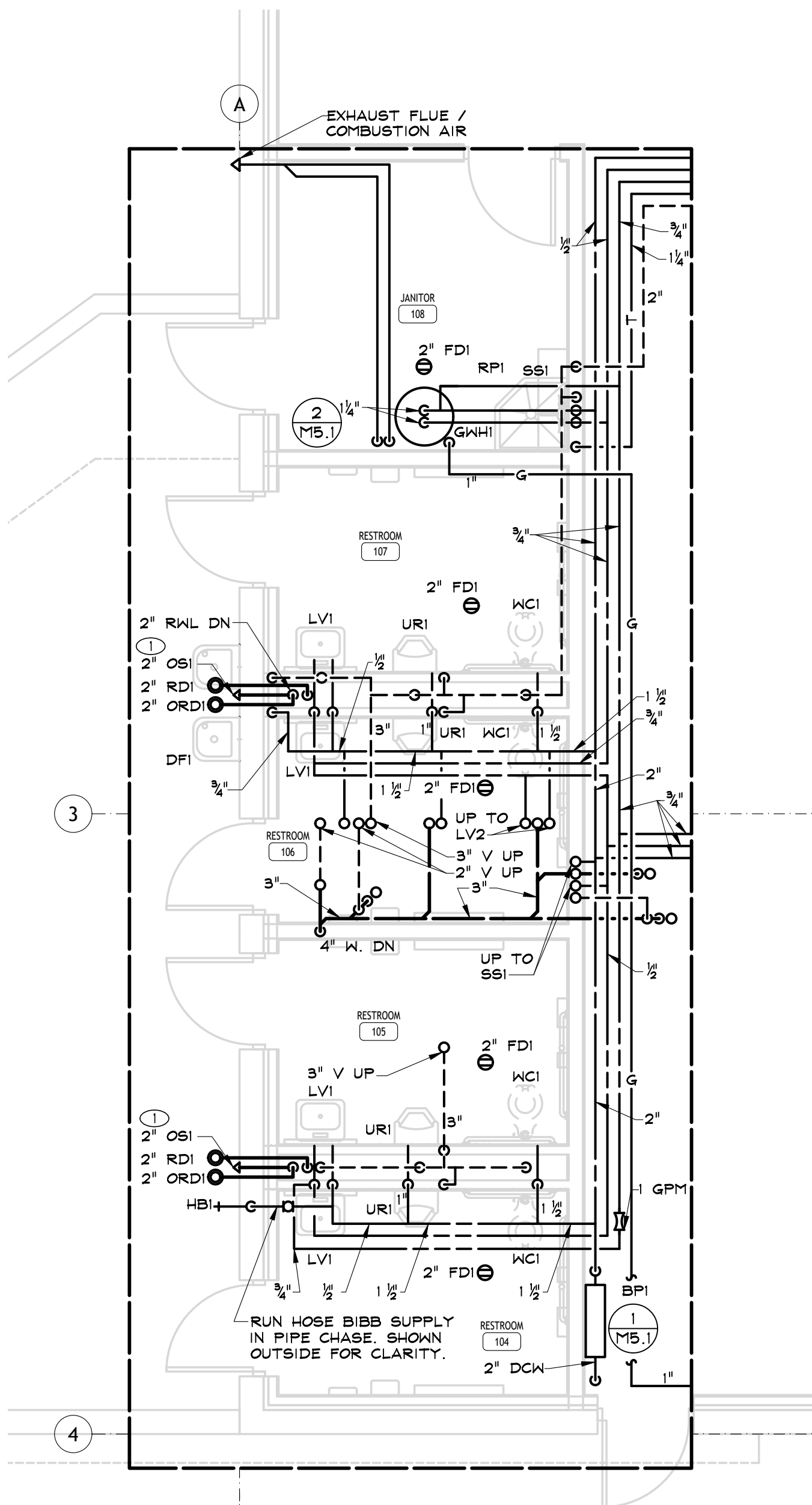
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: FOUNDATION
PLUMBING PLAN
7.3.2019

DATE: Jun 27, 2019 - 10:49am by: Predator-2317



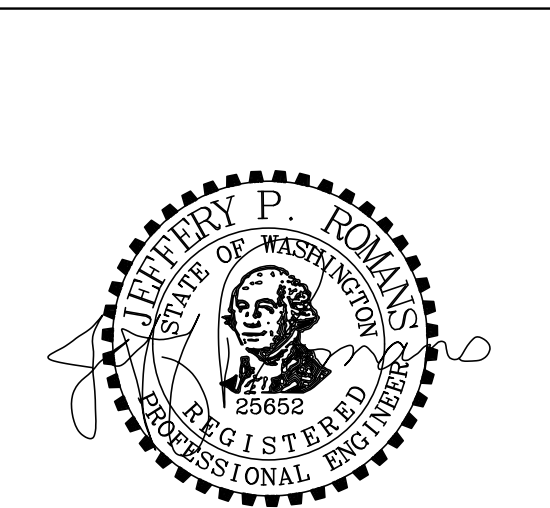
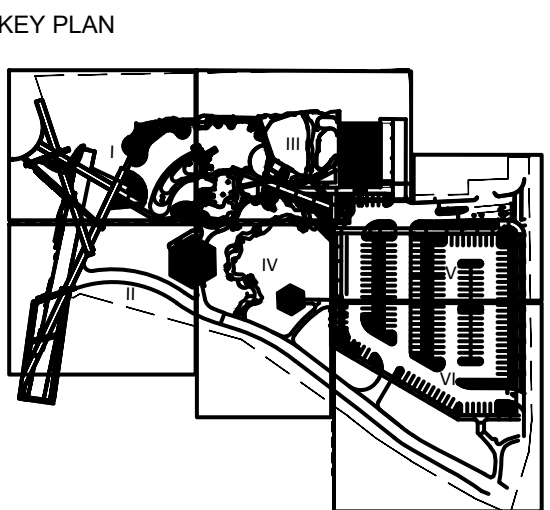
Plumbing Plan - Main Level

SCALE: 1/8" = 1'-0"



1/4 Scale Plumbing Plan - Main Level

SCALE: 1/4" = 1'-0"



BY	REVISIONS	DATE

B

W

A

BERNARDO

WILLS

ARCHITECTS PC

LOCATION	SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION
ELEVATION	SEE SHEET V1.0
CBM NO.	N/A
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

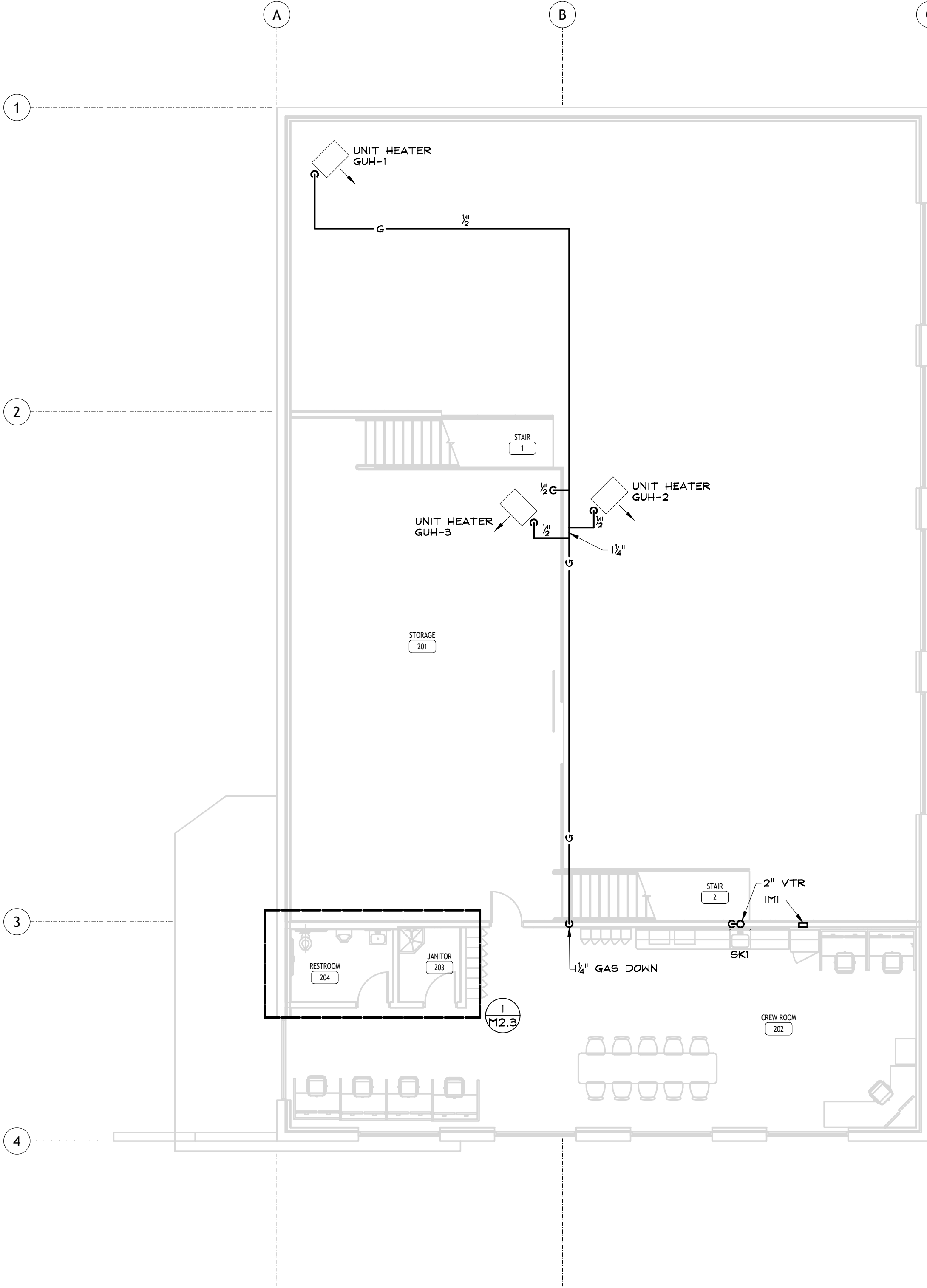
CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
5.3.19	DRAWN SKS
5.3.19	DESIGNED JPR
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	PLUMBING PLAN - MAIN LEVEL 1/4 SCALE PLUMBING PLAN - MAIN LEVEL 7.3.2019

DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	M2.2
PR: OF	REVISION NO:
DATE: Jun 27, 2019 - 10:49am	FILE NAME:



Plumbing Plan - Second Level
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZES.
2. ALL FIXTURES AND VENT TO JANITOR 203 AND RESTROOM 204 ARE ALTERNATE #3.
3. STUB VENT PENETRATIONS FOR JANITOR 203 AND RESTROOM 204 AS PART OF THE BASE BID.

GAS-FIRED TANK TYPE WATER HEATER SCHEDULE	
ITEM NO.:	GW-H-1
DIMENSIONS:	27" DIA. X 74" H
CAPACITY:	
GALLONS	119
INPUT (MBH)	199
RECOVERY #	230
EFFICIENCY (%)	96
EXHAUST FLUE DIAMETER (IN.)	3
COMBUSTION AIR INLET (IN.)	3
WATER INLET & OUTLET SIZE	1-1/2"
VOLTS	120
PHASE	1
DISCONNECT	NOTE 1
MANUFACTURER:	HTP
MODEL:	PH199-119
NOTES:	ALL NOTES
* GALLONS PER HOUR AT 100°F RISE.	
1. DISCONNECT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.	
2. ASME RATED.	

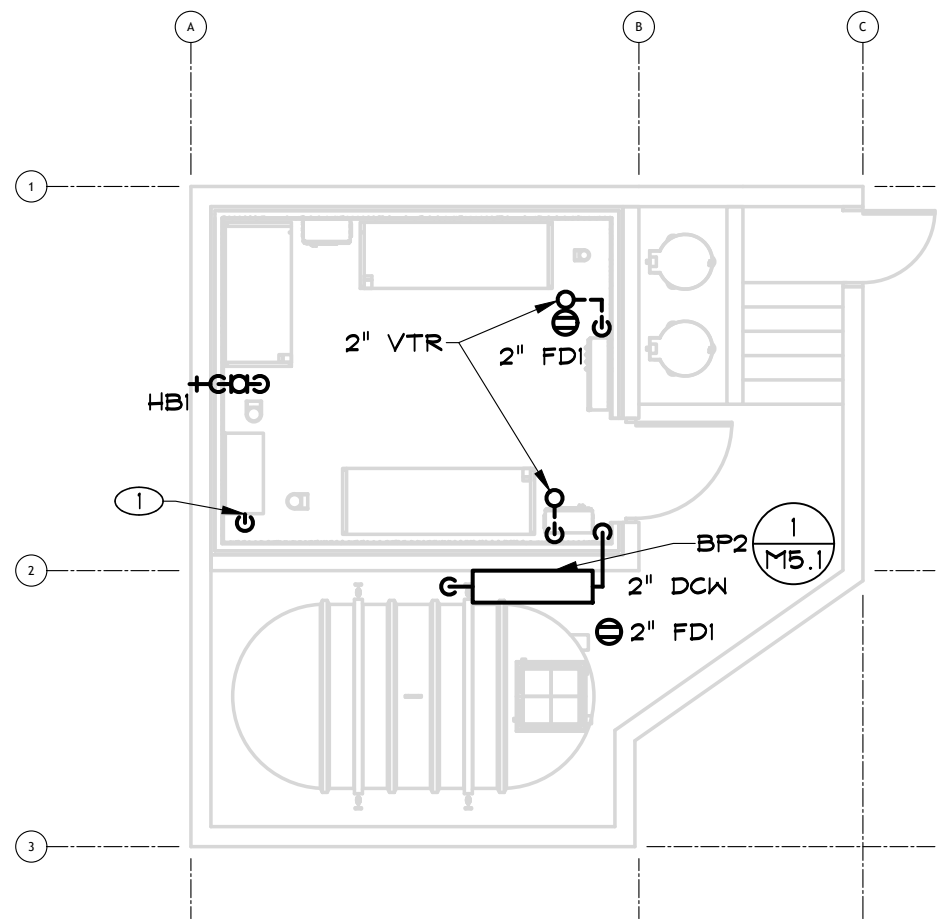
EXPANSION TANK SCHEDULE	
ITEM NO.:	ET1
CAPACITY:	
TANK SIZE (GAL.)	2.0
ACCEPTANCE VOL. (GAL.)	0.9
OPERATING PRESS. (PSI)	125
SERVICE	HW RECIRC.
DIAMETER (IN)	8
LENGTH (IN)	13
MANUFACTURER:	AMTROL
MODEL:	ST-5
NOTES:	1,2
1. PROVIDE TANK WITH BLADDER AND FDA APPROVED LINER FOR POTABLE HOT WATER.	

GENERAL NOTES:

1. REDUCED PRESSURE BACKFLOW PREVENTOR IS LOCATED ABOVE GRADE AND OUTDOORS. SYSTEM WILL REQUIRE DRAINING AND WINTERIZATION DURING OFF SEASON. CONTRACTOR TO PROVIDE SIGN ABOVE BP2 INDICATING THIS REQUIREMENT.

PLAN NOTES:

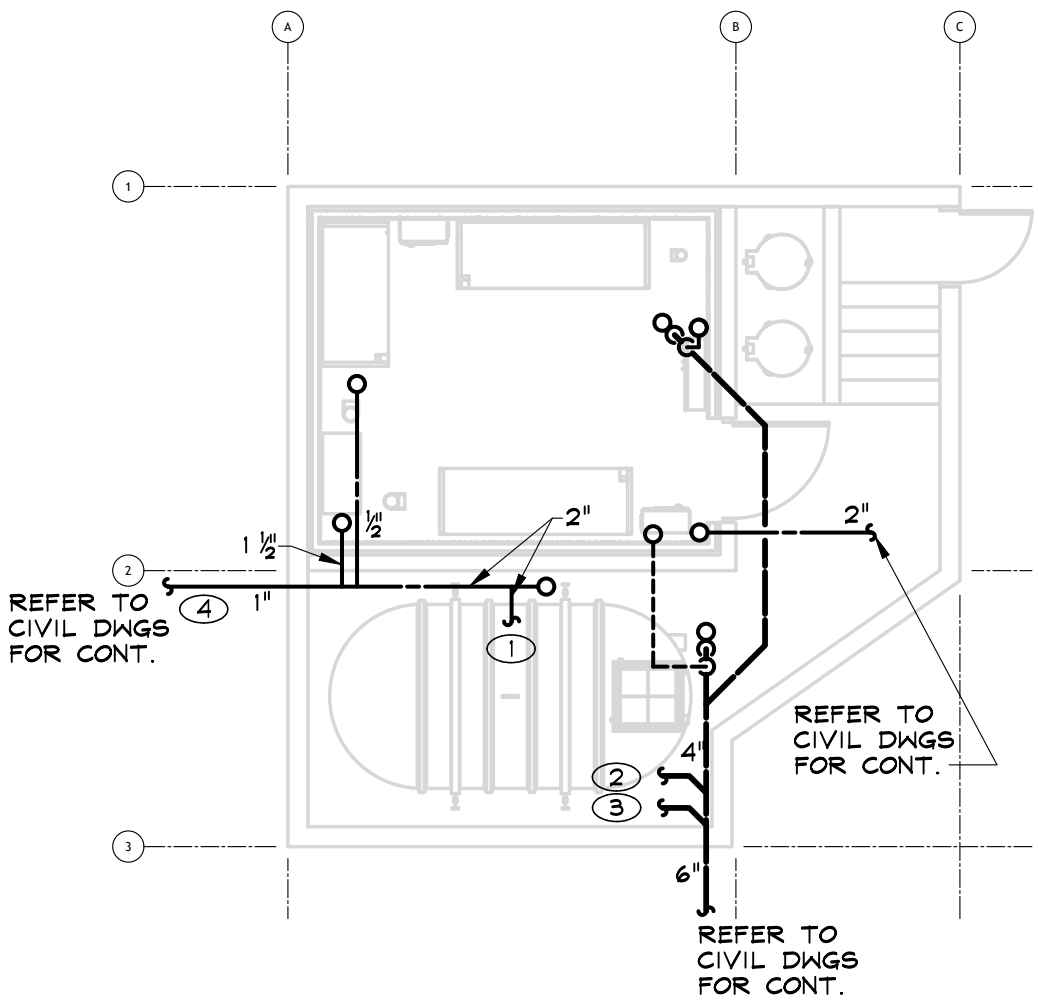
1. 1-1/2" DOMESTIC COLD WATER SUPPLY TO WMF-07 FLANGED WALL MOUNT MANIFOLD. SEE SHEET WP4.0.



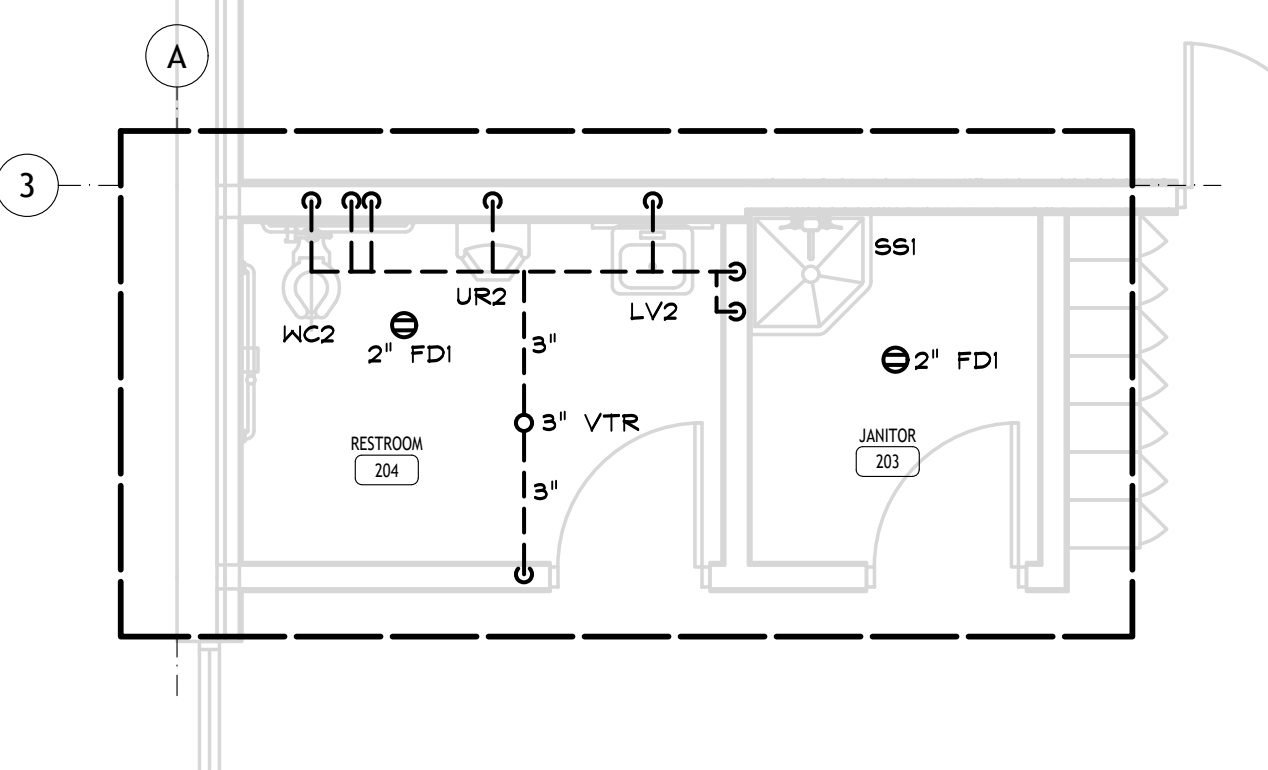
Pump House Plumbing Plan
SCALE: 1/8" = 1'-0"

PLAN NOTES:

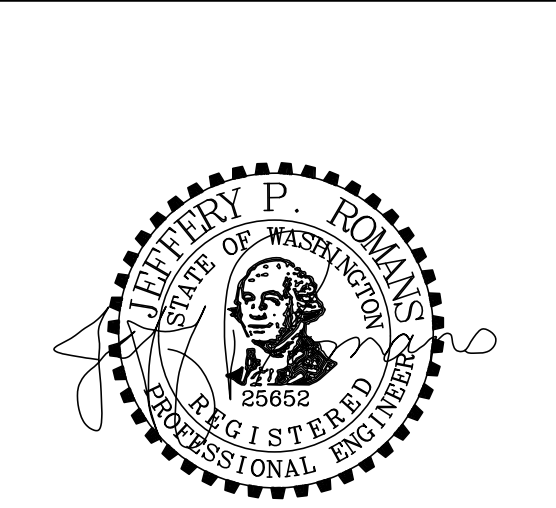
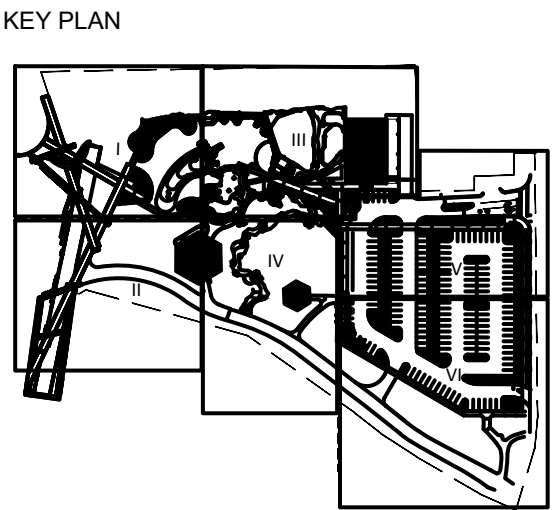
1. 2" DOMESTIC COLD WATER SUPPLY TO IN-GROUND RESERVOIR SYSTEM. SEE SHEET WP3.0.
2. 6" OVERFLOW GRAVITY DRAIN FROM IN-GROUND RESERVOIR SYSTEM. SEE SHEET WP3.0.
3. 2" PUMPED DRAIN FROM IN-GROUND RESERVOIR SYSTEM. SEE SHEET WP3.0.
4. DOMESTIC COLD WATER SUPPLY TO SAND/WATER TABLE AND SPLASH PAD DRINKING FOUNTAIN. SEE CIVIL DRAWINGS FOR CONTINUATION.



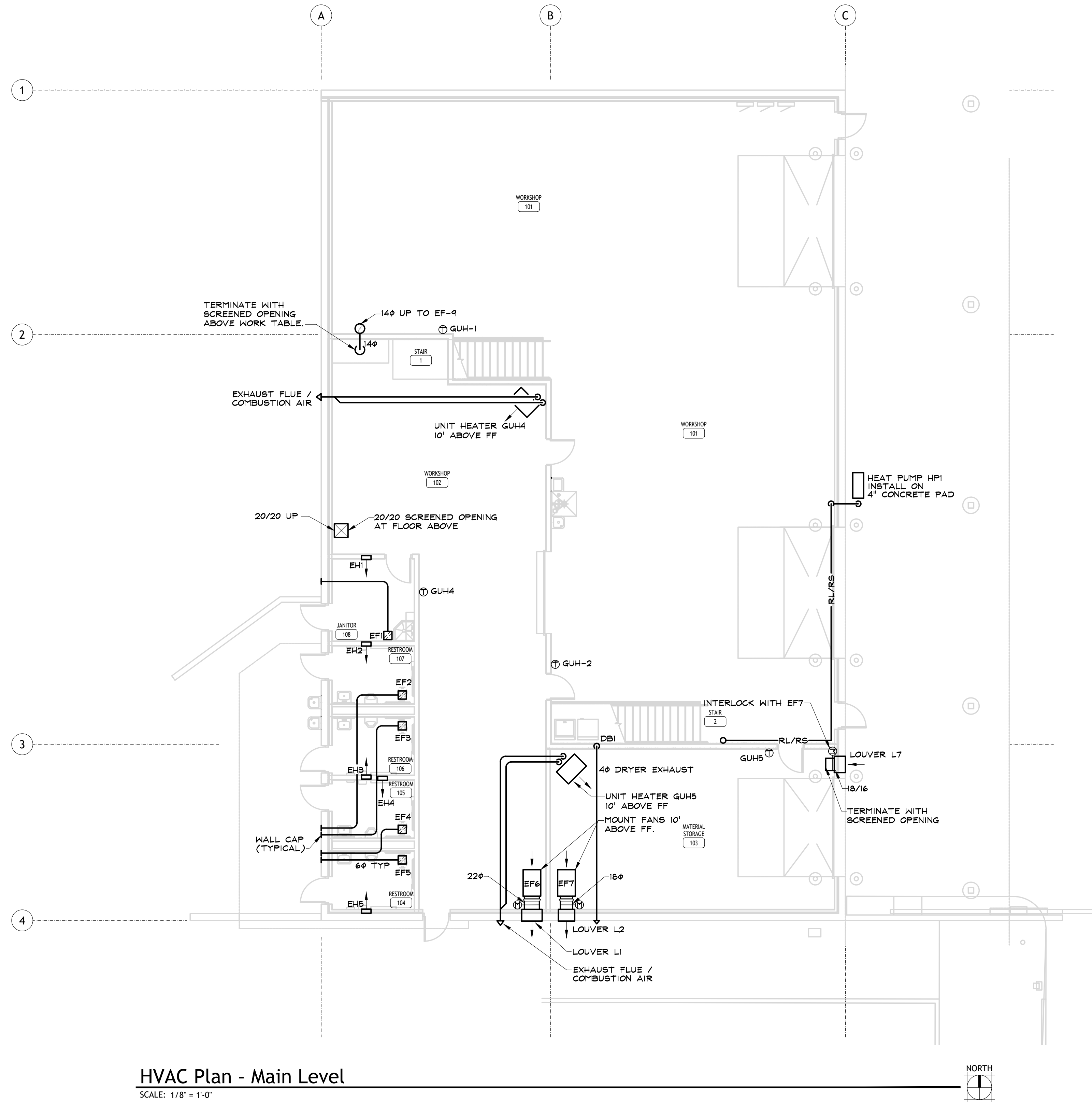
Pump House Foundation Plumbing Plan
SCALE: 1/8" = 1'-0"



1/4 Scale Plumbing Plan - Second Level
SCALE: 1/4" = 1'-0"

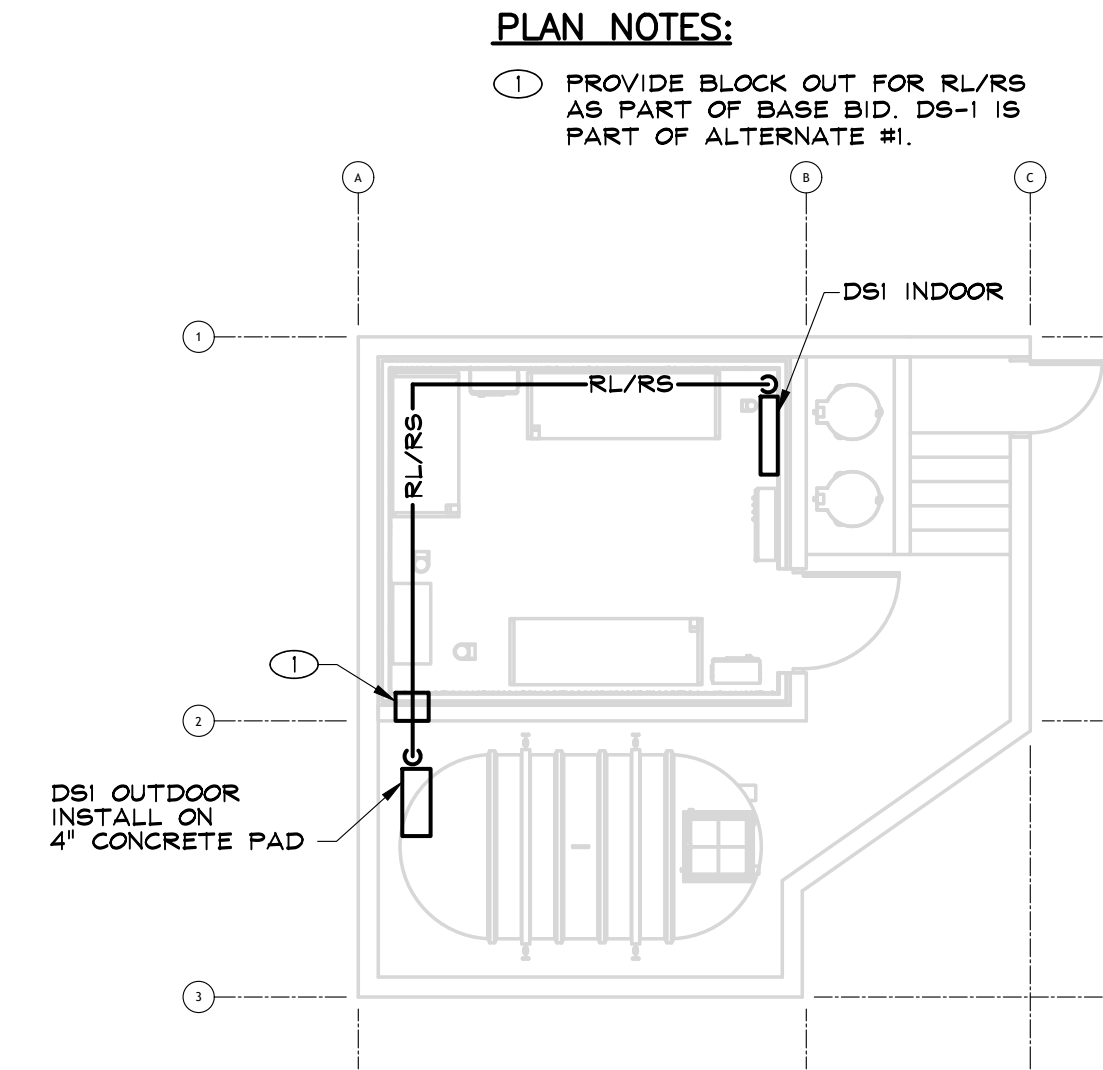


BY			REVISIONS			DATE		
BWA			BERNARDO WILLS			ARCHITECTS PC		
LOCATION			SEE SHEET V1.0 FOR TEMPORARY BENCHMARK INFORMATION			CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95		
ELEVATION			SEE SHEET V1.0			HORIZONTAL		
CBM NO.			N/A			VERTICAL		
CITY DATUM			SCALE			BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		
DRAWN			SKS			DESIGNED		
CHECKED			JPR			APPROVED		
PROJECT TITLE:			RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET			SHEET TITLE:		
PLUMBING PLAN - SECOND LEVEL PUMP HOUSE PLUMBING PLANS			7.3.2019			DATE: Jun 27, 2019 - 10:49am by: Predator-2317		
CITY PURCHASING NUMBER			DRAWING NUMBER			M2.3		
FILE NAME:			REVISION NO.					



HVAC Plan - Main Level

SCALE: 1/8" = 1'-0"

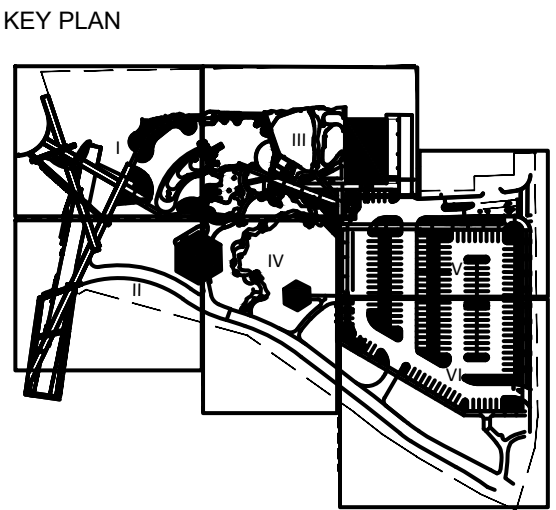


HVAC Plan - Pump House

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT OF EXTERIOR WALL PENETRATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF DIFFUSERS AND GRILLES.



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

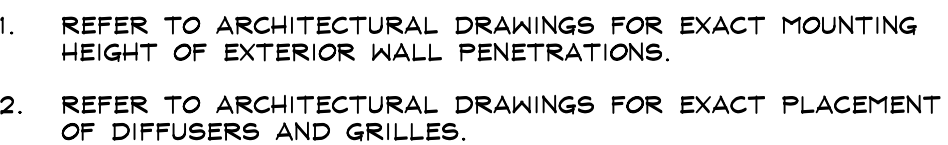
CITY PURCHASING NUMBER DRAWING NUMBER

M 3.1

DATE: Jun 27, 2019 - 10:50am by: Predator-2317

FILE NAME:

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GAS FIRED UNIT HEATER SCHEDULE					
ITEM NO.:		GUH1	GUH2	GUH3	GUH4
CAPACITY:					
CFM		750	750	750	750
EXHAUST FLUE (IN.)		4	4	4	4
COMBUSTION AIR INLET (IN.)		4	4	4	4
HEATING:					
GROSS INPUT (MBH)		45	45	45	45
GROSS OUTPUT (MBH)		36	36	36	36
EFFICIENCY (%)		82	82	82	82
POWER:					
HP		1/6	1/6	1/6	1/6
VOLTS		120	120	120	120
PHASE		1	1	1	1
FLA		3.7	3.7	3.7	3.7
DISCONNECT		NOTE 1	NOTE 1	NOTE 1	NOTE 1
MANUFACTURER:		REZNOR	REZNOR	REZNOR	REZNOR
MODEL:		UDBS	UDBS	UDBS	UDBS
NOTES:		1,2,3	1,2,3	1,2,3	1,2,3
1. DISCONNECT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. SEALED COMBUSTION AIR/FLUE SYSTEM WITH SINGLE PENETRATION. 3. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE.					

ENERGY RECOVERY UNIT SCHEDULE	
ITEM NO.:	ERV1
FAN CAPACITY:	
SUPPLY AIR (CFM) / ESP. (IN. W.G.)	300 / 0.1
EXHAUST AIR (CFM) / ESP. (IN. W.G.)	300 / 0.1
SUMMER RETURN AIR (°F DB/WB)	75.0 / 63.0
WINTER RETURN AIR (°F DB/WB)	72.0 / 54.0
POWER:	
VOLTS / PHASE	115 / 1
MCA	22.5
MOCP	30
MANUFACTURER:	RRS
MODEL:	MCV500E
NOTES:	ALL
WEIGHT:	182
NOTES:	1. PROVIDE WITH MERV 6 OUTDOOR AND EXHAUST AIR FILTER. 2. INCLUDE MOTORIZED ISOLATION DAMPERS FOR EACH AIR STREAM.

DIFFUSER / GRILLE SCHEDULE					
ITEM NO.:	D1	D2	G1	G2	G3
NECK SIZE (IN.)	10ø	8ø	22X22	8X8	12X12
PANEL SIZE (IN.)	NOTE 1	NOTE 1	N/A	N/A	N/A
MANUFACTURER:	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL:	TDC	TDC	350RL	350RL	350RL
NOTES:	1,2	1,2	1,2	1,2	1,2
1. COORDINATE FRAME TYPE WITH CONSTRUCTION. 2. ALL DIFFUSERS SELECTED FOR NC LEVELS BELOW 30, AND AIR PRESSURE DROP BELOW 0.15" W.G.					

ELECTRIC HEATER SCHEDULE					
ITEM NO.	EH1	EH2	EH3	EH4	EH5
LOCATION	JANITOR 108	RESTROOM 107	RESTROOM 106	RESTROOM 105	RESTROOM 104
CAPACITY					
CFM	80	80	80	80	80
WATTS	500	500	500	500	500
AMPS	4.6	4.6	4.6	4.6	4.6
VOLTAGE	120	120	120	120	120
PHASE	1	1	1	1	1
MANUFACTURER	INDEECO, WRI	INDEECO, WRI	INDEECO, WRI	INDEECO, WRI	INDEECO, WRI
MODEL	930U00500B	930U00500B	930U00500B	930U00500B	930U00500B
NOTES	1,2	1,2	1,2	1,2	1,2
1. PROVIDE WITH TAMPERPROOF THERMOSTAT. 2. COORDINATE COLOR WITH ARCHITECT.					

LOUVER SCHEDULE								
ITEM NO.:	L1	L2	L3	L4	L5	L6	L7	L8
CAPACITY:								
FREE AREA (SQ. FT.)	2.42	1.56	0.49	0.31	7.80	3.20	1.90	1.29
CFM	2500	1500	300	300	6000	2500	1500	1000
SIZE (W X H)	30 X 24	24 X 20	18 X 12	12 X 12	48 X 42	30 X 30	24 X 24	24 X 18
FACE VELOCITY (FFM)	1033	963	606	970	769	782	789	775
APD (IN W.G.)	0.13	0.11	0.06	0.12	0.09	0.10	0.10	0.07
INTERLOCK	EF6	EF7	ERV1	ERV1	EF6	EF6	EF7	EF9
DAMPER VOLTAGE	120	120	120	120	120	120	120	120
MANUFACTURER:	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN
MODEL:	ELF6375DXH	ELF6375DXH	ELF6375DXH	ELF6375DXH	ELF6375DXH	ELF6375DXH	ELF6375DXH	ELF6375DXH
NOTES:	ALL	ALL	2,3	2,3	ALL	ALL	ALL	ALL
1. PROVIDE WITH FACTORY MOTORIZED BACKDRAFT DAMPER, INTERLOCK WITH FAN SERVED. 2. PROVIDE WITH FACTORY KYNAR FINISH, COORDINATE COLOR WITH ARCHITECT. 3. PROVIDE WITH BIRD SCREEN.								

FAN COIL SCHEDULE	
ITEM NO.:	FC1
AREA SERVED	CREW ROOM 202
LOCATION	CREW ROOM 202
CAPACITY:	
CFM	1400
OSA	0
ESP. (IN. W.G.)	0.25
HEATING:	
OUTPUT (MBH)	--
ELECTRIC HEAT KIT (KW)	--
COOLING:	
SENSIBLE OUTPUT (MBH)	--
TOTAL OUTPUT (MBH)	48
POWER:	
VOLTS	NOTE 3
PHASE	NOTE 3
MCA / MOP	NOTE 3
WEIGHT	95
MANUFACTURER:	LENNOX
MODEL:	MMDA048S4-1P
NOTES:	1,2
1. RUN CONDENSATE TO NEAREST SK-1 DRAIN IN CREW ROOM 202. 2. PROVIDE WITH ELECTRIC HEAT KIT. 3. INDOOR UNIT POWERED FROM OUTDOOR UNIT.	

HEAT PUMP SCHEDULE	
ITEM NO.:	HPI
FAN COILS SERVED:	FC1
COOLING CAPACITY (MBH):	48
AMBIENT TEMP. (DB/WB)	95 / 67
REFRIGERANT	R-410A
SEER	17.4
HEATING CAPACITY (MBH):	49.5
AMBIENT TEMP. (DB)	0
HSPF	10.3
POWER:	
VOLTS	208
PHASE	1
MCA / MOCP	35 / 50
MANUFACTURER:	LENNOX
MODEL:	MPB048S4S-1P
NOTES:	ALL
1. DISCONNECT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. INSTALL HEAT PUMP ON 4" CONCRETE PAD. 3. PROVIDE WITH BASE PAN HEATER AND LOW AMBIENT KIT.	

DUCTLESS SPLIT SCHEDULE (HIGH WALL)	
ITEM NO.:	DS1
COOLING CAPACITY:	
SEN/TOTAL @ 95°F (MBH)	16.4 / 18.7
SEN/TOTAL @ -13°F (MBH)	13.7 / 17.5
EVAPORATOR (°F DB)	75
AMBIENT TEMP. (DB/WB)	96/67
REFRIGERANT	R-410A
SEER	20.0
HEATING CAPACITY:	
TOTAL @ MIN AMBIENT	12.4
MIN. AMBIENT TEMP. (DB)	-22
COP AT 47°F	3.14
HSPF	10.3
POWER:	
EVAPORATOR	
DIMENSIONS (WXXHxD)	39 X 12 X 9
VOLTS	NOTE 4
PHASE	NOTE 4
MCA/MOCP	NOTE 4
HEAT PUMP	
DIMENSIONS (WXXHxD)	33 X 28 X 14
VOLTS	208/230
PHASE	1
MCA/MOCP	16/25
DISCONNECT:	NOTE 1
MANUFACTURER:	CARRIER
MODEL:	
INDOOR	40MAGB18
OUTDOOR	38MAGB18
NOTES:	ALL
1. DISCONNECT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. PROVIDE HEAT PUMP UNIT WITH WITH LOW AMBIENT CONTROLS, CRANKCASE HEATER, BASE PAN HEATER, AND OPTIONS FOR COOLING TO -13 F° AMBIENT, AND HEATING FOR -22 F° AMBIENT. 3. RUN CONDENSATE TO NEAREST FLOOR DRAIN. PROVIDE CONDENSATE PUMP IF REQUIRED. 4. SINGLE POINT POWER CONNECTION TO HEAT PUMP, THEN POWER IS RUN FROM HEAT PUMP TO EVAPORATOR. 5. PROVIDE CONDENSER-EVAPORATOR SYSTEM AS AN ENGINEERED PACKAGE, COMPLETE WITH CONTROLS.	

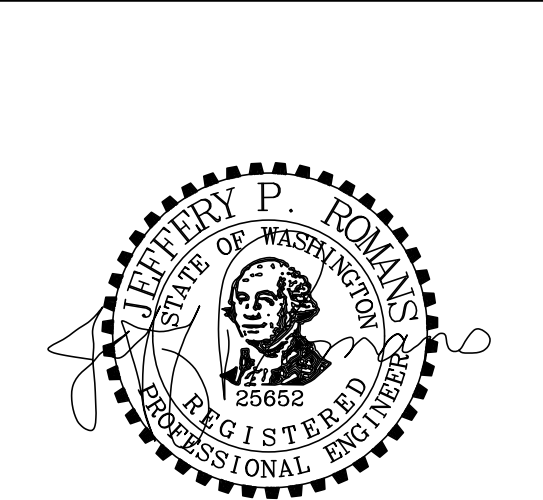
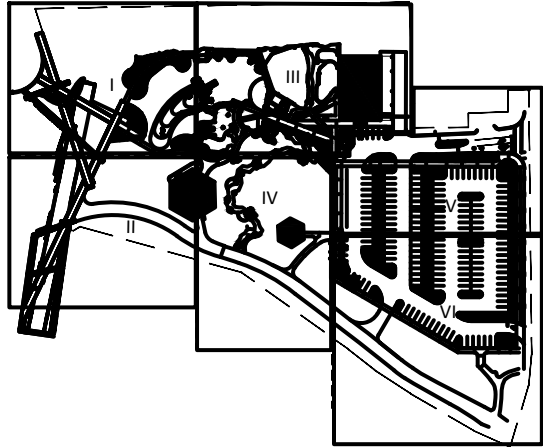
PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	TYPE	SIZE	MANUFACTURER AND MODEL NO.	COLOR OR FINISH	ROUGH-IN CONNECTION (IN.)	REMARKS
WC1	ADA WATER CLOSET	WALL MTD. FL. VALVE	ADA ELONGATED	WHITEHALL WH2105BAR-W-1	STAINLESS STEEL	4 2 1 --	PROVIDE W/ BARIATRIC ELONGATED TOILET FIXTURE (1.6 GAL. PER FLUSH). FLUSH VALVE, SENSOR BATTERY POWERED, SLOAN, MODEL 8111. ADJUST MOUNTING HEIGHT FOR ADA.
WC2	ADA WATER CLOSET	FLR. MTD. TANK TYPE	ADA ELONGATED	AMERICAN STANDARD CADET, 2467.016	WHITE	4 2 ½ --	PROVIDE W/ WHITE OPEN FRONT ELONGATED SEAT, CHURCH MODEL 2100, (1.6 GAL. PER FLUSH).
LV1	LAVATORY	WALL MOUNTED	20 ½ X 18 ¼"	WHITEHALL WH3740BAR-09	STAINLESS STEEL	1 ½ 1 ½ ½ ½	PROVIDE BARIATRIC FIXTURE WITH MOUNTING CARRIER, TRAP COVER, WALL ANCHORING HARDWARE, TAMPER RESISTANT SCREWS, SLOAN MODEL ETF-600-BDT SENSOR FAUCET, 4" CENTER HOLES, AND KOHLER K-9018 P-TRAP
LV2	LAVATORY	WALL MOUNTED	22 ¼" X 22 ½"	AMERICAN STANDARD PENLYN, 0373.027	WHITE	1 ½ 1 ½ ½ ½	PROVIDE W/ 0.5 GPM FLOW CHICAGO FAUCET MODEL 2200-4E2805ABCP FAUCET, 4" CENTER HOLES, AND KOHLER K-9018 P-TRAP.
UR1	ADA URINAL	WALL MOUNTED	ELONGATED RIM	WHITEHALL 1709HEU-W-1	STAINLESS STEEL	3 1 ½ ¾ --	PROVIDE FIXTURE WITH SENSOR BATTERY POWERED FLUSH VALVE, SLOAN, MODEL 8180. (0.5 GAL. PER FLUSH).
UR2	ADA URINAL	WALL MOUNTED	ELONGATED RIM	AMERICAN STANDARD WASHBROOK, 6501.615	WHITE	3 1 ½ ¾ --	PROVIDE W/ SENSOR BATTERY POWERED FLUSH VALVE, SLOAN, MODEL 8180. (1.0 GAL. PER FLUSH).
SK1	SINGLE BOWL SINK	COUNTER MOUNTED	21 X 22 X 7 ½	JUST SL-2122-A-GR	STAINLESS STEEL	2 1 ½ ½ ½	PROVIDE W/ SPEAKMAN FAUCET & SPRAY, MODEL S-3762-HS-LF. PROVIDE SINK WITH FOUR FAUCET HOLES. KOHLER K-9000 P-TRAP.
DF1	DRINKING FOUNTAIN	ADA TWO LEVEL NON-REFRIGERATED	SURFACE MOUNTED	ELKAY EHW1217FFK	STAINLESS STEEL	2 1 ½ ½ --	PROVIDE HEAVY DUTY BI-LEVEL NON-FILTERED FOUNTAIN, FREEZE RESISTANT, IN-WALL CARRIER MODEL #MPW200, AND VANDAL RESISTANT BUBBLER.
DF2	DRINKING FOUNTAIN	SINGLE FOUNTAIN NON-REFRIGERATED	SURFACE MOUNTED	ELKAY EHW214C	STAINLESS STEEL	2 1 ½ ½ --	BUBBLER SHALL HAVE A FLEXIBLE GUARD.
SS1	SERVICE SINK	CORNER FLR. MTD.	24 X 36 X 10	MUSTEE 65M	FIBER-GLASS	3 2 ½ ½	PROVIDE W/ FLAT GRID DRAIN, CHICAGO FAUCET: 445-897SRCXKCP, WITH INTEGRAL CHECK STOPS, PROVIDE 5' LONG ¾" HOSE, AND BUMPER GUARDS.
SS2	SERVICE SINK	WALL MOUNTED	24 X 20 ½ X 11	AMERICAN STANDARD 7695.008	WHITE	3 2 ½ ½	PROVIDE W/ FLAT GRID DRAIN, 3" CAST IRON P-TRAP, CHICAGO FAUCET: 445-897SRCXKCP, WITH INTEGRAL CHECK STOPS, STAINLESS RIM GUARD.
FD1	FLOOR DRAIN	ROUND	--	JR SMITH FIG. 2005	CAST IRON	-- -- -- --	SIZE AS INDICATED ON DRAWINGS. PROVIDE W/ NICKEL BRONZE STRAINER HEAD, AND TRAP PRIMER CONNECTION.
TD1	TRENCH DRAIN	PRE SLOPED SYSTEM	--	POLYCAST SERIES 600	POLYMER CONCRETE	-- -- -- --	PROVIDE DRAIN WITH CLASS "E" FRAME, SLOTTED DUCTILE IRON GRATE WITH HOLD DOWN DEVICE - LOAD CLASS E, MODEL DG0641D. REFER TO DRAWINGS FOR LENGTHS.
IM1	ICE MAKER OUTLET BOX	TOP SUPPLY	--	GUY GRAY	WHITE POWDER COATED	-- -- ½ --	PROVIDE 20 GAUGE BOX WATER TIGHT CONSTRUCTION, SLOPED BOTTOM, 20 GAUGE FACE PLATE, ¼" TURN BALL VALVE.
WB1	WASHING MACH. BOX	TOP SUPPLIES BOTTOM DRAIN	--	GUY GRAY T SERIES	WHITE POWDER COATED	2" 1 ½ ½ ½	PROVIDE 20 GAUGE BOX WATER TIGHT CONSTRUCTION, SLOPED BOTTOM, 20 GAUGE FACE PLATE, ¼" TURN BALL VALVES WITH WATER HAMMER ARRESTER
DB1	DRYER VENT OUTLET BOX	TOP OUTLET	2X6 WALL	GUY GRAY DB-425	ALUMINIZED STEEL	-- -- ½ --	PROVIDE 22 GAUGE BOX
ES1	DRENCH SHOWER & EYE/FACE WASH	FLOOR MOUNTED	--	GUARDIAN G1950P PLASTIC BOWL	YELLOW POWDER COATED	1 ½ 1 ½ -- --	PROVIDE WITH ½" STAY OPEN VALVE, STAINLESS STEEL PULL ROD, EYE WASH BOWL, FACE SPRAY, AND STAY OPEN FACE SPRAY VALVE. ¼" TOP INLET FOR WATER SUPPLY. ¼" WASTE OUTLET.
OWS1	OIL/WATER SEPARATOR	BELOW GRADE	20 GAL	JR SMITH FIG. 8599	STEEL	-- -- -- --	--
RDI	ROOF DRAIN	LOW PROFILE	--	JR SMITH FIG. 1010	CAST IRON	-- -- -- --	SIZE AS INDICATED ON DRAWINGS. PROVIDE W/ UNDER DECK CLAMP. PROVIDE EXTENSION AND SUMP RECEIVER AS REQUIRED.
ORD1	OVERFLOW ROOF DRAIN	FLOODING TYPE	--	JR SMITH FIG. 1070	CAST IRON	-- -- -- --	SIZE AS INDICATED ON DRAWINGS. PROVIDE W/ UNDER DECK CLAMP. PROVIDE EXTENSION AND SUMP RECEIVER AS REQUIRED.
OS1	OVERFLOW SCUPPER	DOWN SPOUT NOZZLE	--	JR SMITH FIG. 1770	CAST IRON	-- -- -- --	SIZE AS INDICATED ON DRAWINGS. PROVIDE W/ UNDER DECK CLAMP. PROVIDE EXTENSION AND SUMP RECEIVER AS REQUIRED.
HB1	HOSE BIBB	NON-FREEZE	¾" HOSE CONNECTION	JR SMITH FIG. 5609QT	BRONZE NICKEL	-- -- ¾ --	PROVIDE INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP AND "I" HANDLE KEY.
BP1	BACKFLOW PREVENTER	REDUCED PRESSURE	--	FEBCO SERIES 860	--	-- -- -- --	PROVIDE LEAD FREE IN-LINE REDUCED PRESSURE BACKFLOW ASSEMBLY. SIZE AS INDICATED ON THE DRAWINGS
BP2	BACKFLOW PREVENTER	REDUCED PRESSURE	--	FEBCO SERIES 860	--	-- -- -- --	PROVIDE LEAD FREE IN-LINE REDUCED PRESSURE BACKFLOW ASSEMBLY. SIZE AS INDICATED ON THE DRAWINGS
NOTES:							
1. DIVISION 15 CONTRACTOR IS TO PROVIDE AND INSTALL A COMPLETE OPERATIONAL INSTALLATION PER STATE, LOCAL AND CURRENT UNIFORM PLUMBING CODES.							

EXHAUST FAN SCHEDULE

ITEM NO.:	EF1	EF2	EF3	EF4	EF5	EF6	EF7	EF8	EF9
CAPACITY:									
CFM	100	100	100	100	100	2500	1500	6000	1000
ESP. (IN W.G.)	0.15	0.15	0.15	0.15	0.15	0.35	0.35	0.34	0.2
RPM	890	890	890	890	890	1355	770	1525	1330
SONES	0.5	0.5	0.5	0.5	0.5	12.7	5.1	25	7.8
POWER:									
HP	16 Watts	16 Watts	16 Watts	16 Watts	16 Watts	1	3/4	1	1/4
EC MOTOR (Y/N)	N	N	N	N	N	Y	Y	Y	Y
VOLTS	120	120	120	120	120	120	120	120	120
PHASE	1	1	1	1	1	1	1	1	1
DISCONNECT	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1
WEIGHT (LBS)	--	--	--	--	--	158	143	50	--
MANUFACTURER:	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL:	CSP-A110	CSP-A110	CSP-A110	CSP-A110	CSP-A110	SQ-160HP-VG	SQ-160-VG	AER-E24C-320-VG	SQ-100-D
NOTES:	2	2	2	2	2	2	2	2,3	2
METHOD OF CONTROL:	TIME CLOCK	TIME CLOCK	TIME CLOCK	TIME CLOCK	TIME CLOCK	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH
1. STARTER (WHERE REQUIRED) AND DISCONNECT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 2. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER, INTERLOCK WITH FAN. DAMPER TO COMPLY WITH 40 CFM LEAKAGE PER SQUARE FOOT AT 1.0" PRESSURE AS TESTED BY AMCA 500. 3. PROVIDE WEATHERHOOD ACCESSORY, GALVANIZED 45 DEG. WITH BIRD SCREEN.									

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER DRAWING NUMBER

M 4.1

FILE NAME:

DATE: Jun 27, 2019 - 10:50am by: Predator-2317

BY	REVISIONS							DATE	

B W A BERNARDO | WILLS
ARCHITECTS PC

LOCATION	SEE SHEET V1.0 FOR TEMPORARY BENCHMARK INFORMATION
ELEVATION	SEE SHEET V1.0
CBM NO.	N/A
NAVD 88	
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS	CCS - ADOPTED 2/95
5.3.19	DRAWN
5.3.19	DESIGNED
5.3.19	CHECKED
5.3.19	APPROVED

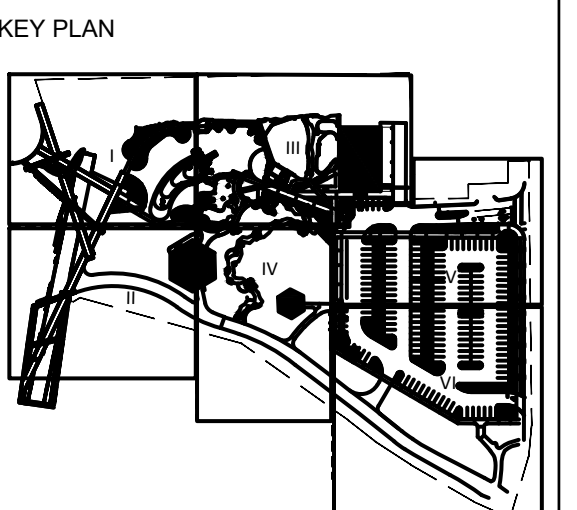
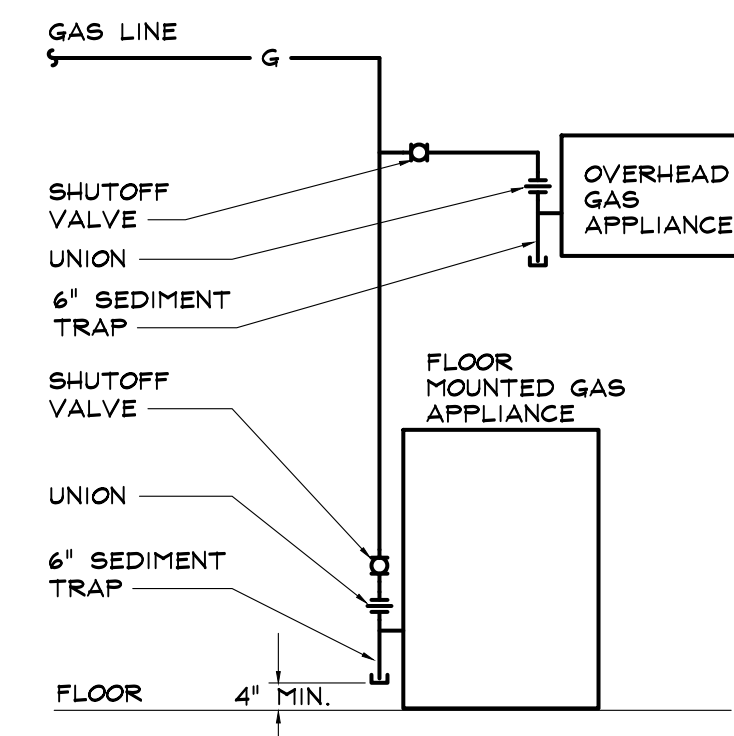
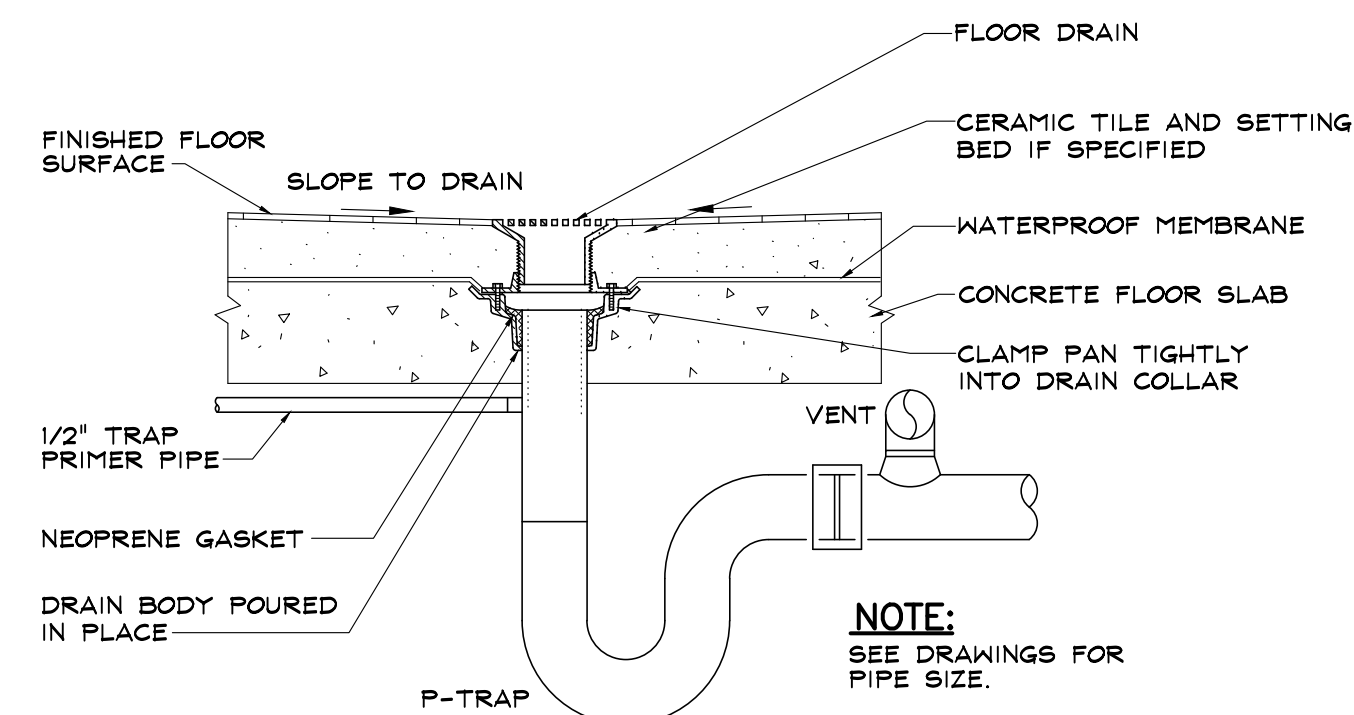
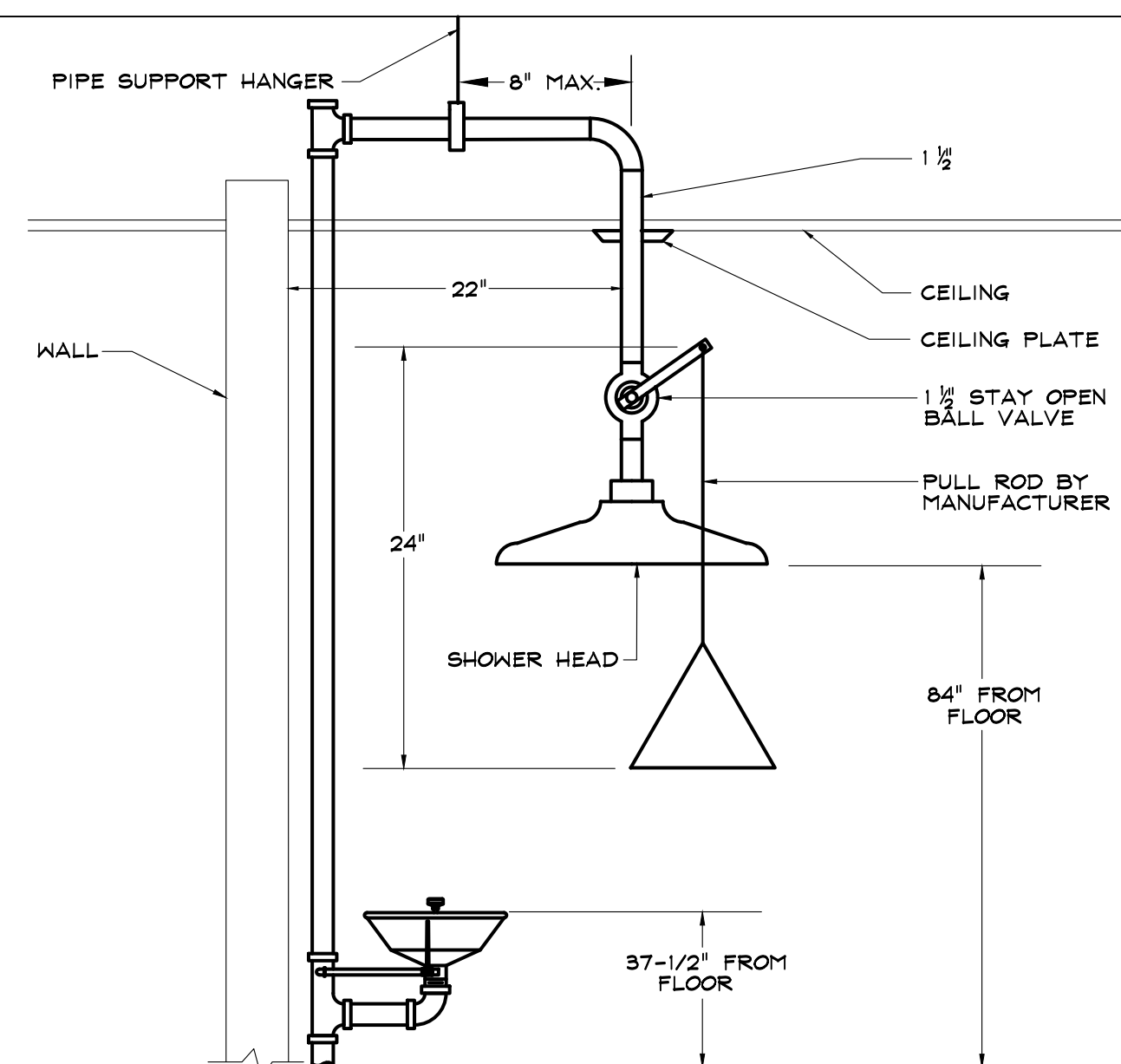
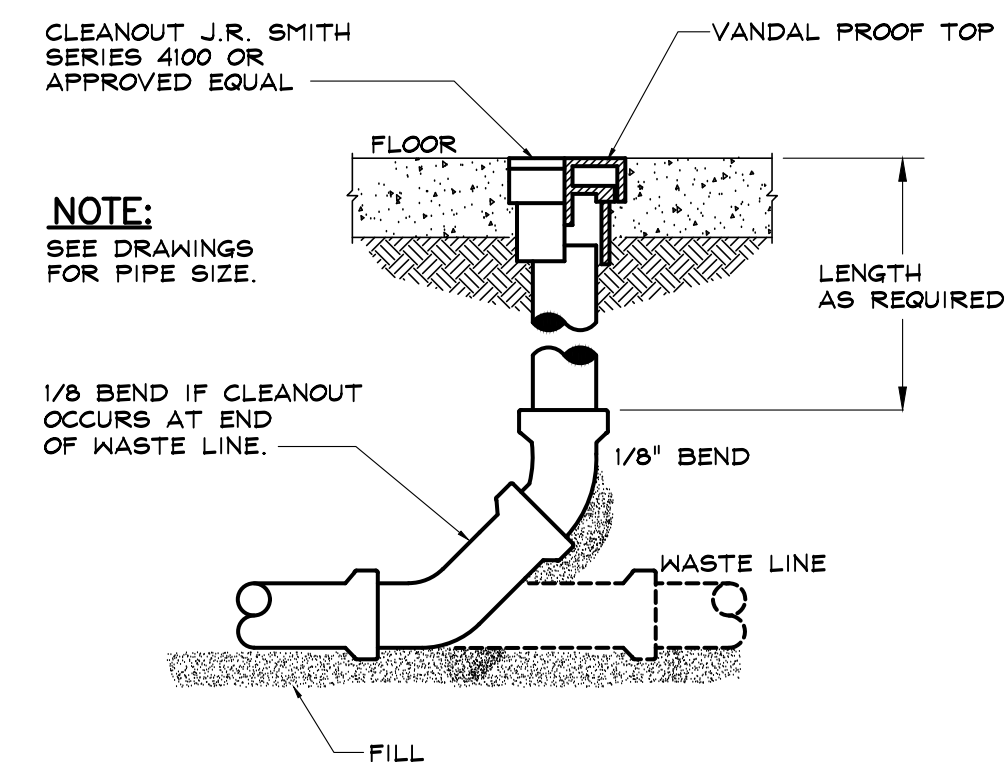
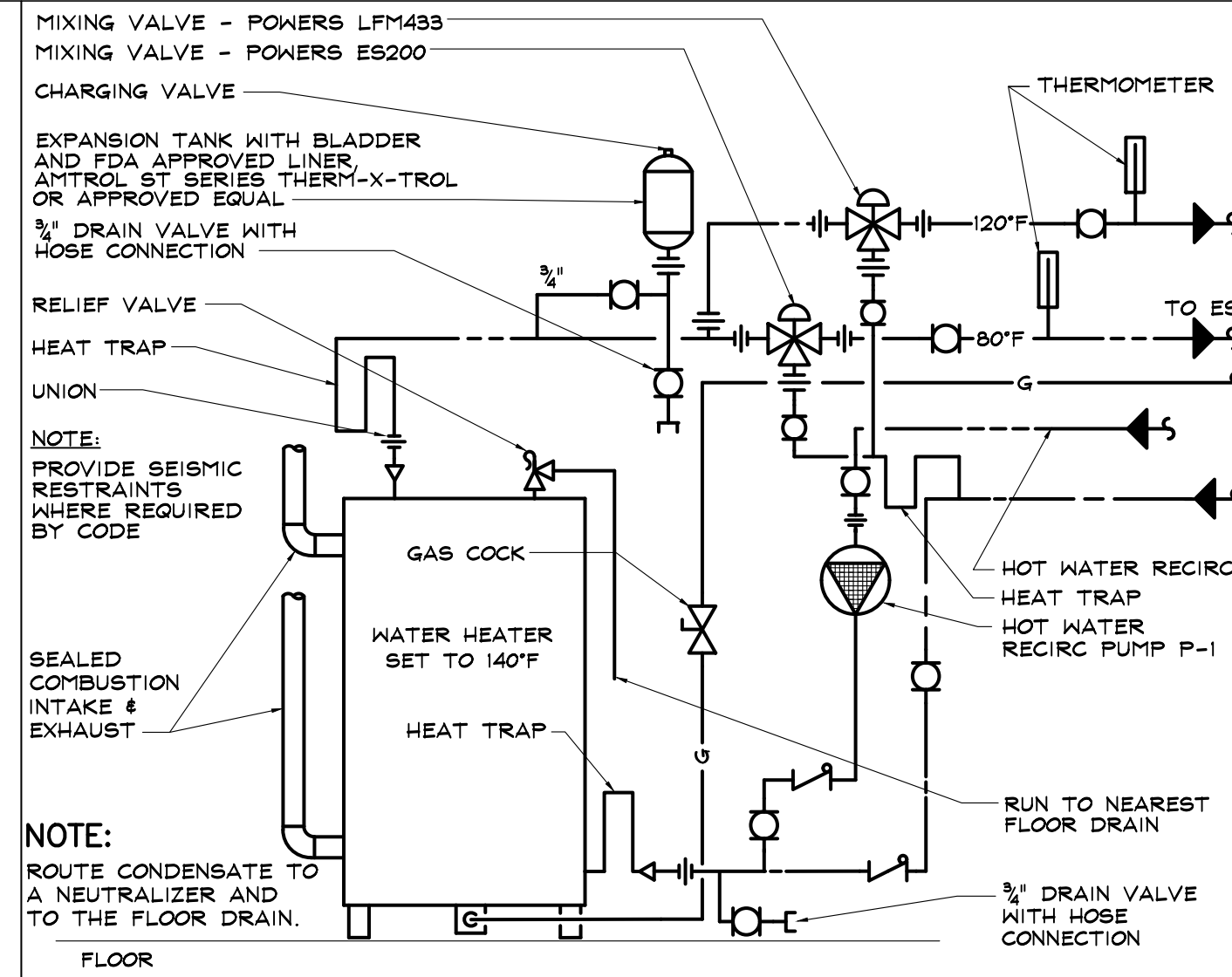
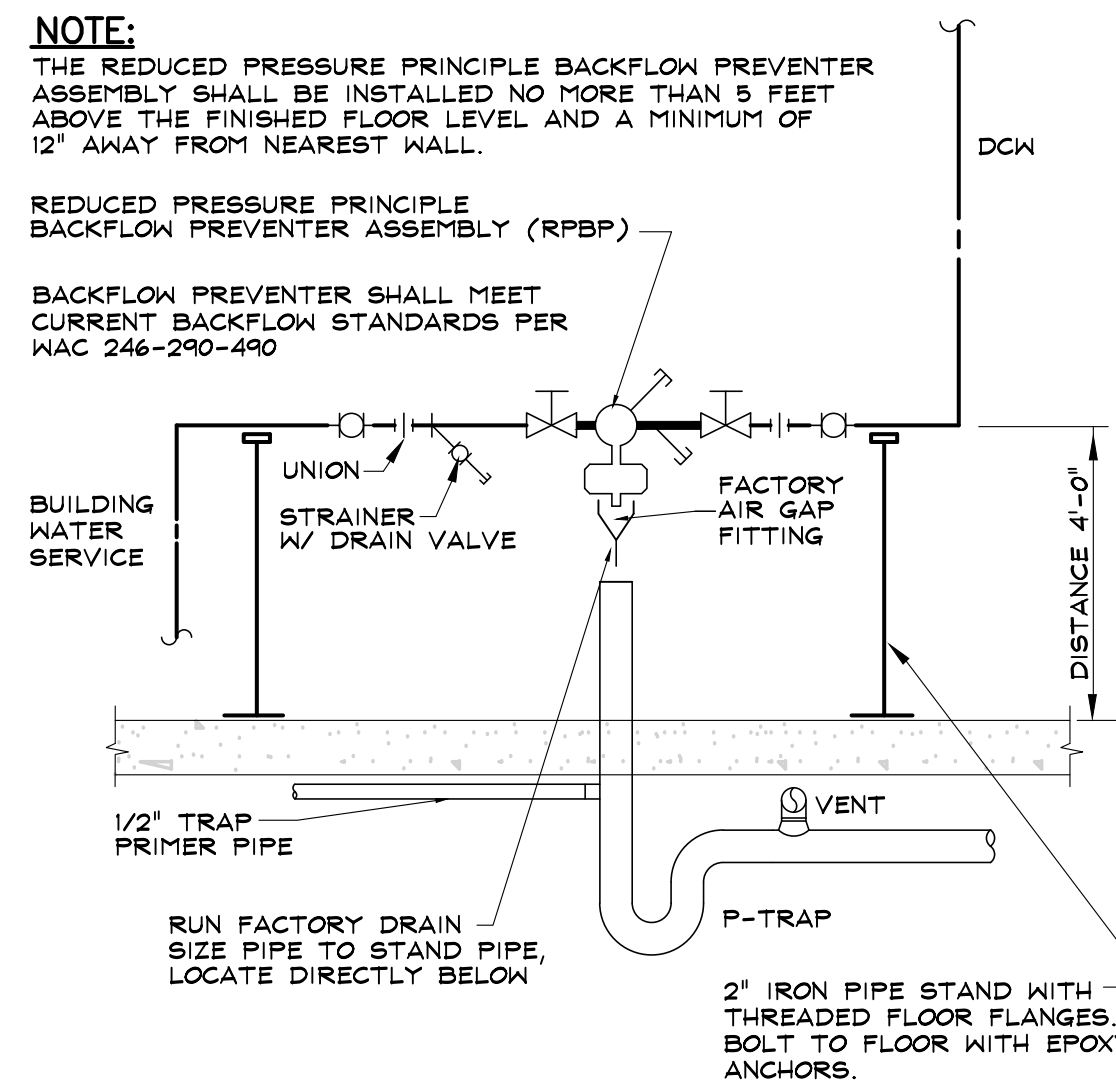


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET


SHEET TITLE: MECHANICAL
EQUIPMENT SCHEDULES
7.3.2019



BY	REVISIONS	DATE

B W A BERNARDO | WILLS
ARCHITECTS PC

LOCATION: SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION		
ELEVATION	SEE SHEET V1.0	HORIZONTAL
CBM NO.	N/A NAVD 88	VERTICAL
CITY DATUM		SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0  1"

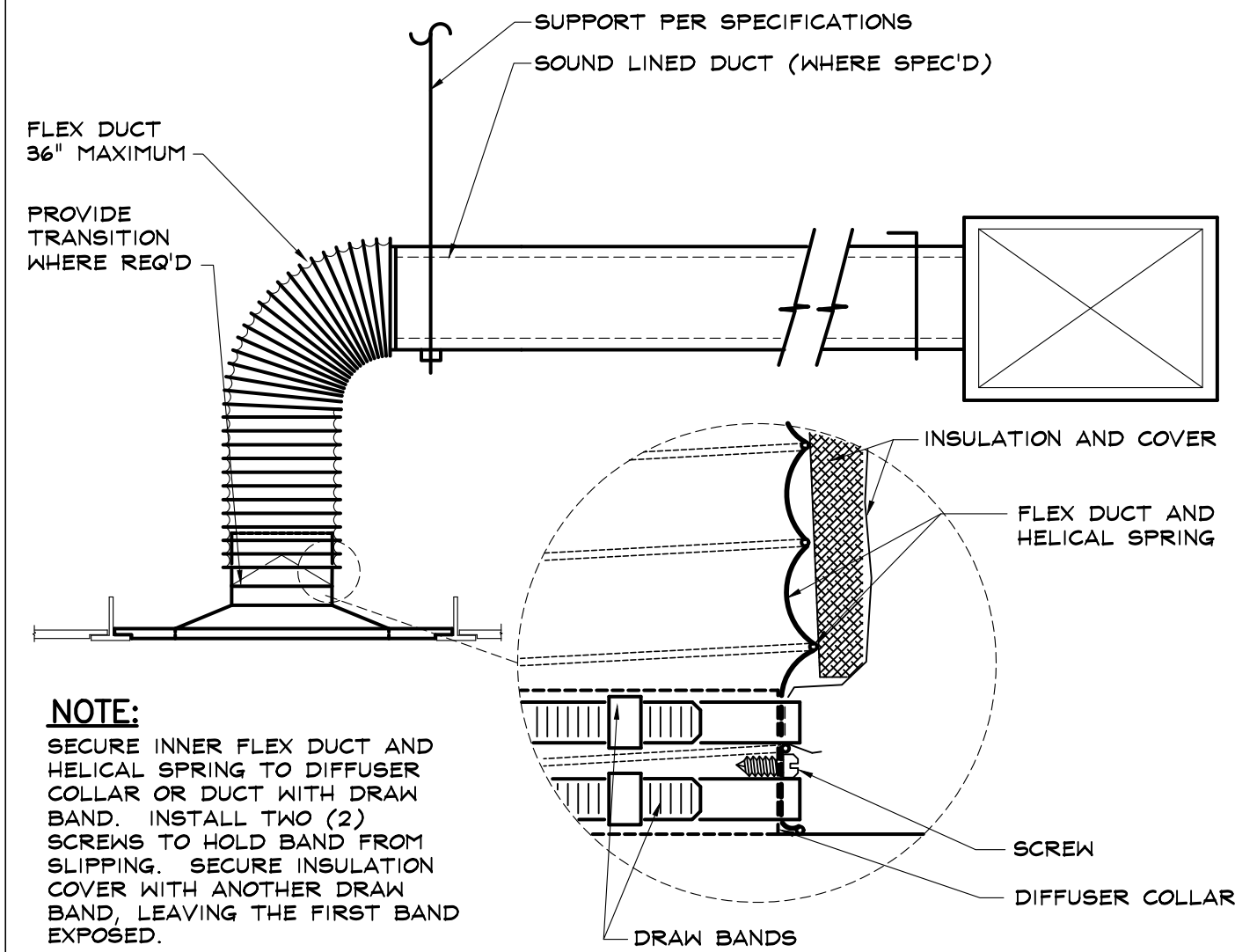
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95		
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5.3.19	DESIGNED JPR	
	CHECKED	
	APPROVED	

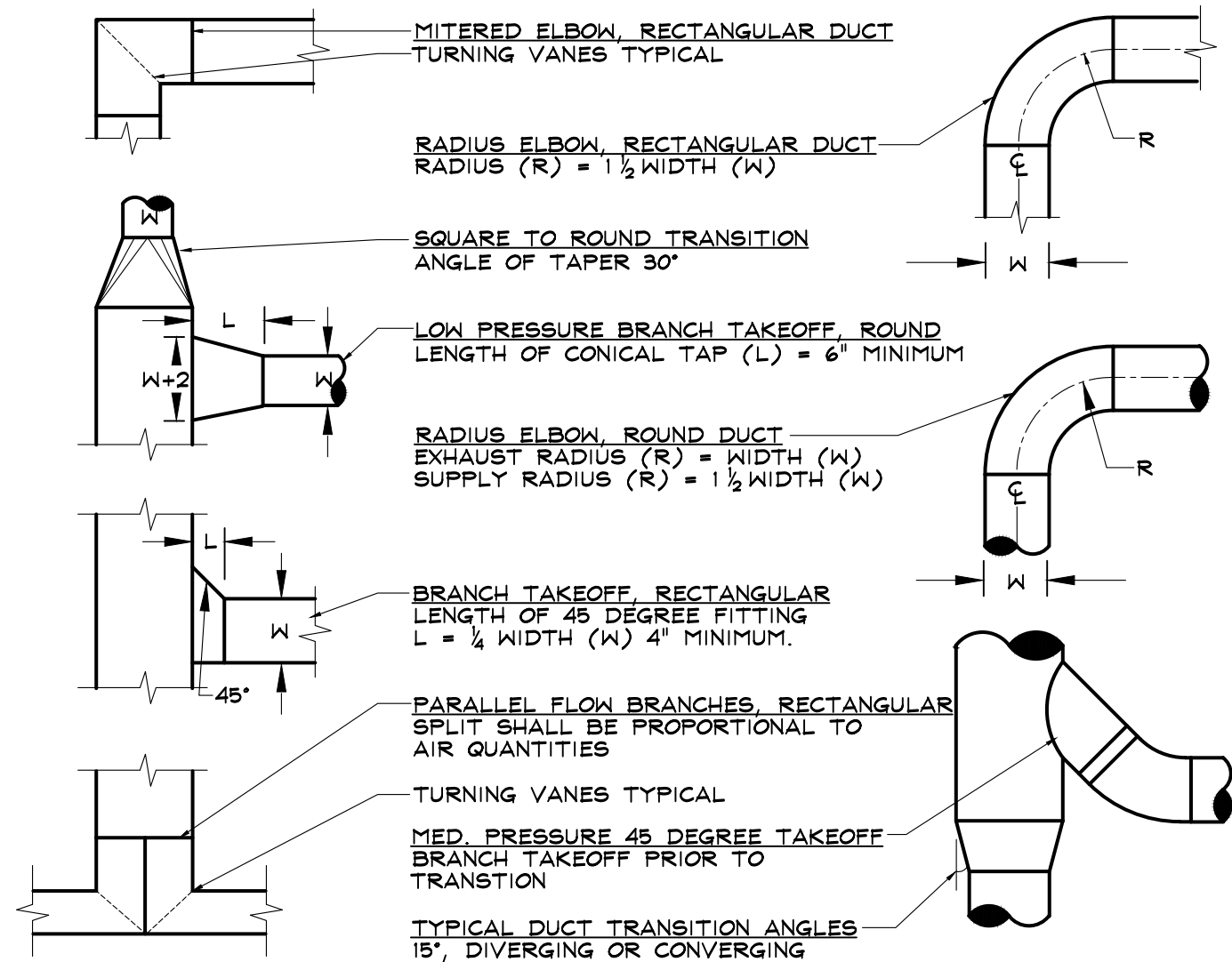
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	MECHANICAL DETAILS 7.3.2019
DATE: Jun 27, 2019 - 10:50am by: Predator-2317	

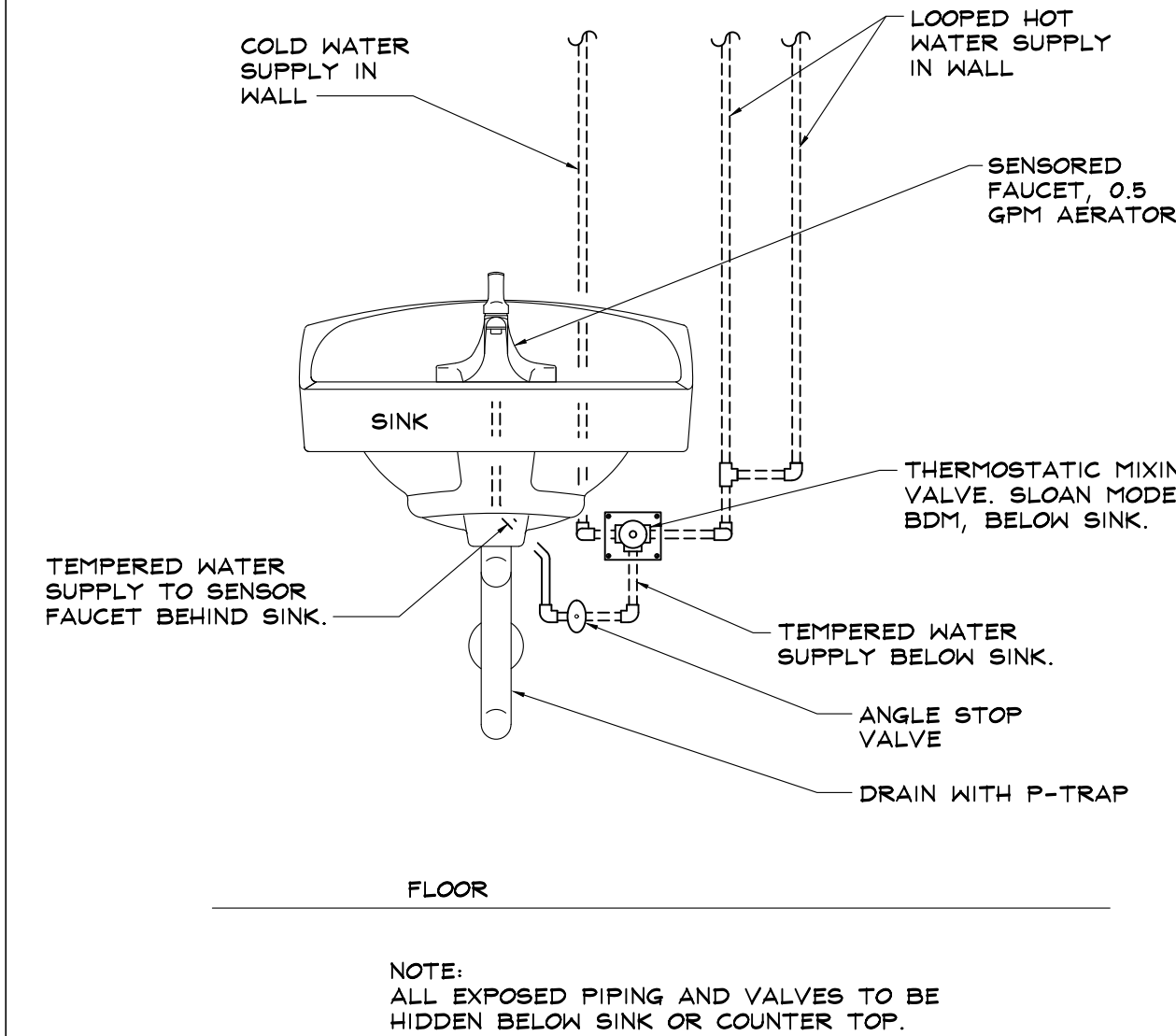
DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT: PARK	
CITY PURCHASING NUMBER	DRAWING NUMBER
	M 5.1
P#: OF	REVISION NO.:
FILE NAME:	



1 DIFFUSER/GRILLE CONNECTION
NOT TO SCALE



2 TYPICAL DUCT FITTINGS
NOT TO SCALE



3 SENSORED FAUCET PIPING
NOT TO SCALE

WASHINGTON STATE ENERGY CODE (WSEC) COMPLIANCE

1. HVAC EQUIPMENT IS TO HAVE MINIMUM PERFORMANCE AT SPECIFIED EQUIPMENT RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN THE TABLE C403.2.3(1)A THROUGH C403.2.3(9) AND AS INDICATED ON THE CONTRACT DRAWINGS.
2. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.2.4.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
3. HVAC SYSTEMS ARE TO BE EQUIPPED WITH AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. THE SYSTEM SHALL HAVE A MANUAL OVERRIDE TO ALLOW TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS, AS REQUIRED BY SECTION C403.2.4.3.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
4. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C403.2.2.1 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
5. ALL DUCTWORK IS TO BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC). ALL DUCTWORK IS TO BE SEALED AS REQUIRED BY SECTION C403.2.7.3.

DUCTWORK STATIC PRESSURE AND SEAL CLASS:

WATER COLUMN	SEAL CLASS
LESS THAN 2 INCHES	SEAL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS.
2 TO LESS THAN 3 INCHES	INSULATED AND SEALED PER SECTION C403.2.7.
ABOVE 3 INCHES	INSULATED AND SEALED PER SECTION C403.2.7, AND LEAK TESTED IN ACCORDANCE WITH SMACNA STANDARDS.
6. ALL DUCTWORK IS TO BE INSULATED AS REQUIRED BY SECTION C403.2.7.
7. ALL PIPING IS TO BE INSULATED AS REQUIRED BY SECTION C403.2.8. SEE TABLE BELOW:

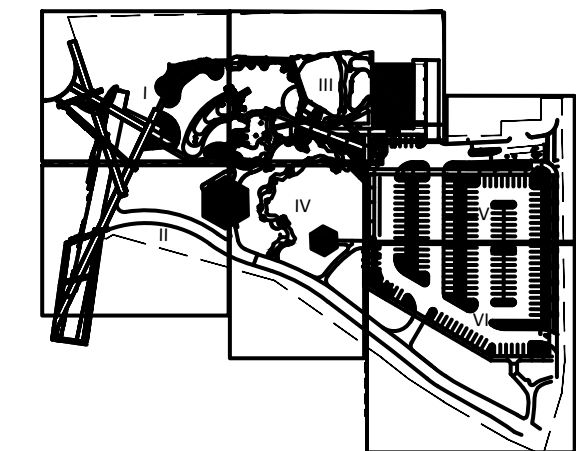
FLUID OPERATING TEMP. RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY (NOTE 1)	MEAN RATING TEMP., °F	NOMINAL PIPE OR TUBE SIZE (IN.)					
			< 1	1 TO < 1 1/2	1 1/2 TO < 4	4 TO < 8	> 8	
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0	
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5	
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0	
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0	
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5	
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0	
< 40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5	

NOTES:
1. BTU x IN. / (H x F² x F).

8. INDIVIDUAL ZONE TERMINAL UNIT AND HVAC SYSTEMS SERVING PORTIONS OF THE BUILDING HAVING LESS THAN 24-HOUR OPERATION ARE TO BE SHUT OFF DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C403.2.4.3.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
9. SUPPLY AIR AND WATER TEMPERATURES ARE TO BE AUTOMATICALLY RESET AS REQUIRED BY SECTION C403.2.4.3.1 OR C403.2.4.3.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
10. SIMULTANEOUS HEATING AND COOLING TO INDIVIDUAL ZONES IS PROHIBITED AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES EXCEPT WHERE PERMITTED IN SECTION C403.4.5, EXCEPTIONS 1 THROUGH 4.
11. DOMESTIC HOT WATER CIRCULATION PUMPS ARE TO BE SHUT DOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C404.8 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
12. MOTOR EFFICIENCY IS TO MEET THE MINIMUM EQUIPMENT EFFICIENCY REQUIREMENTS OF SECTION C403.2.3 AND TABLES C403.2.3(1) THROUGH C403.2.3(9) FOR FULL LOAD EFFICIENCIES.
13. RECORD DRAWINGS ARE TO BE PROVIDED TO THE OWNER WITHIN 90 DAYS AFTER THE DATE OF ACCEPTANCE AS REQUIRED BY SECTION C403.1.3. THE DRAWINGS SHALL INDICATE THE LOCATIONS AND PERFORMANCE DATA OF EQUIPMENT, GENERATION CONFIGURATION OF DUCTWORK, AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.
14. OPERATION AND MAINTENANCE MANUALS ARE TO BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C403.1.3.2. AT A MINIMUM THE MANUALS ARE TO INCLUDE:

SUBMITTAL DATA.
OPERATION AND MAINTENANCE DATA FOR EQUIPMENT.
NAMES AND ADDRESS OF SERVICE AGENTS.
CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION.
15. HVAC SYSTEMS ARE TO BE BALANCED AS REQUIRED BY SECTION C403.2.2.
16. COMMISSIONING IS TO BE PROVIDED AND A PRELIMINARY AND FINAL COMMISSION REPORT IS TO BE PROVIDED TO THE OWNER AS REQUIRED BY SECTIONS C403.1.2 AND C403.1.3.4.
17. CONTROL DAMPERS ON OUTDOOR INTAKES AND EXHAUSTS TO BE CLASS 1A MOTORIZED DAMPERS WHICH CLOSE AUTOMATICALLY WHEN THE SYSTEM IS OFF. DAMPERS TO HAVE A LEAKAGE RATE OF 4CFM/SQFT AT 1.0 INCH W.G. STATIC PRESSURE WHEN TESTED TO AMCA 500D, PER C402.4.3.2 AND C403.2.4.4.

KEY PLAN



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER

DRAWING NUMBER

M 5.2

DATE: Jun 27, 2019 - 10:50am by: Predator-2317

FILE NAME:

BY	REVISIONS	DATE

B W A BERNARDO WILLS
ARCHITECTS PC

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
5.3.19	DRAWN SKS
5.3.19	DESIGNED JPR
	CHECKED
	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: MECHANICAL
DETAILS
7.3.2019

ABBREVIATIONS	
LETTER	NAME
Ø	PHASE
A	ABOVE COUNTER / AMPERE
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
AL	ALUMINIUM
AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
B	BELOW COUNTER
BLDG	BUILDING
BOD	BOTTOM OF DEVICE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLK	CLOCK
COD	CENTER OF DEVICE
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DW	DISHWASHER
E	EXISTING TO REMAIN
EA	EACH
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC CONDUIT
ENCL	ENCLOSURE
EQPM	EQUIPMENT
ER	EXISTING TO BE REMOVED
EXP	EXPLOSION PROOF
EXST	EXISTING
FA	FIRE ALARM
FDR	FEEDER
FLA	FULL LOAD AMPERES
FO	FIBER OPTIC
G	GROUND FAULT CIRCUIT INTERRUPT/GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFP	GROUND FAULT PROTECTION
GND	GROUND
HH	HANDHOLE
HP	HORSEPOWER
HZ	HERTZ (CYCLES PER SECOND)
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IN	INCH / INCHES
JBOX	JUNCTION BOX
KV	KILO-VOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LC	LIGHTING CONTROL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL EQUIP. MANUFACTURER'S ASSOC.
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OL	OVERLOAD
PB	PULL BOX
PKG	PACKAGE
PNL	PANEL
PR	PAIR
PWR	POWER
R	EXISTING TO BE RELOCATED
RCPT	RECEPTACLE
REF	REFRIGERATOR
REV	REVISION
RM	ROOM
SHT	SHEET
SIM	SIMILAR
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
STBY	STANDBY
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
TBB	TELEPHONE BONDING BACKBONE
TC	TIME CLOCK
TEL	TELEPHONE
THRU	THROUGH
TOD	TOP OF DEVICE

ABBREVIATIONS	
LETTER	NAME
TGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFY	VERIFY
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
WP	WEATHERPROOF
XFMR	TRANSFORMER
Z	IMPEDANCE

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	GENERAL
	SHEET NOTE
	RACEWAY CONCEALED IN WALL/CEILING
	RACEWAY CONCEALED IN BELOW FLOOR
	RACEWAY FOR EMERGENCY LIGHTING
	CABLE TRAY
	CONDUIT UP, VERTICAL TRANSITION
	CONDUIT DOWN, VERTICAL TRANSITION
	CONDUIT CAPPED
	CONDUIT HAZARDOUS AREA SEAL
	FLEXIBLE CONDUIT
	HOME RUN X = PANELBOARD # = BRANCH CIRCUIT NUMBER(S)
	JUNCTION BOX
	SURFACE RACEWAY (DEVICES SHOWN)
	FLUSH FLOOR BOX (DEVICES SHOWN)
	POKE-THRU FITTING (DEVICES SHOWN)
	POWER POLE
	VAULT
	PULL BOX
ONE-LINE DIAGRAM	
	TRANSFORMER
	DELTA
	WYE
	OPEN DELTA
	CURRENT TRANSFORMER
	RESISTOR
	CAPACITOR
	NORMALLY OPEN CONTACTOR
	NORMALLY CLOSED CONTACTOR
	CIRCUIT BREAKER NUMBER INDICATES TRIP AND POLES
	DISCONNECT SWITCH
	FUSE WITH RATING
	FUSED DISCONNECT WITH RATING

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	MOTOR THERMAL OVERLOADS
	SEPARABLE CONNECTOR
	GROUND CONNECTION
	GROUND PROTECTION RELAY
	SHUNT TRIP
	AUTOMATIC TRANSFER SWITCH
	POWER METER
	RELAY
	VARIABLE FREQUENCY DRIVE
	FEEDER CALLOUT

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING
	LUMINAIRE: ID = FIXTURE TYPE x = SWITCH ASSOCIATION
	2x4' RECESSED FLUORESCENT FIXTURE
	2x4' RECESSED FLUORESCENT FIXTURE, EMERGENCY
	2x4' SURFACE-MTD FLUORESCENT FIXTURE
	2x4' SURFACE MTD FLUORESCENT FIXTURE, EMERGENCY
	1'x4' RECESSED FLUORESCENT FIXTURE
	1'x4' RECESSED FLUORESCENT FIXTURE, EMERGENCY
	1'x4' SURFACE MTD FLUORESCENT FIXTURE
	1'x4' SURFACE MTD FLUORESCENT FIXTURE, EMERGENCY
	PENDANT-MTD/SUSPENDED FIXTURE
	PENDANT-MTD/SUSPENDED FIXTURE, EMERGENCY
	WALL-MTD FLUORESCENT FIXTURE
	WALL-MTD FLUORESCENT FIXTURE, EMERGENCY
	STRIP FLUORESCENT LIGHTING FIXTURE
	CEILING-MTD DIRECTIONAL FIXTURE
	CEILING-MTD FIXTURE
	WALL-MTD FIXTURE
	WALL-MTD FIXTURE, EMERGENCY
	EXIT SIGN WITH ARROW INDICATING DIRECTION OF EGRESS
	WALL-MTD EXIT SIGN
	CEILING-MTD EXIT SIGN
	BATTERY POWERED EMERGENCY LIGHT
	BATTERY POWERED EMERGENCY LIGHT
	POLE-MTD FIXTURE - ARROW INDICATES AIM Pz = POLE TYPE, x DENOTES TYPE NUMBER. REFER TO LUMINAIRE SCHEDULE ON SHEET E6.1 Bx = POLE BASE DETAIL, x DENOTES DETAIL NUMBER. REFER TO DETAILS ON SHEETS E4.0
	POLE TOP-MOUNTED SITE LUMINAIRE Pz = POLE TYPE, x DENOTES TYPE NUMBER. REFER TO LUMINAIRE SCHEDULE ON SHEET E6.1 Bx = POLE BASE DETAIL, x DENOTES DETAIL NUMBER. REFER TO DETAILS ON SHEETS E4.0
	EXTERIOR LANDSCAPE FIXTURE

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	WALL SWITCH: X = AS FOLLOWS: 3 - THREE-WAY 4 - FOUR-WAY D - DIMMER K - KEY-OPERATED LV - LOW-VOLTAGE LVM - LOW-VOLTAGE MASTER M - MOTOR STARTER WITH OVERLOADS MC - MOMENTARY CONTACT O - OCCUPANCY SENSOR P - PILOT LIGHT WP - WEATHERPROOF a - LOWER-CASE INDICATES SWITCHING CNTRL
	SINGLE-POLE WALL SWITCH
	PHOTOCELL CONTROL
	OCCUPANCY SENSOR
	TIME CLOCK LIGHTING
	CONTROL PANEL
	LIGHT FIXTURE IN DAYLIGHT ZONE (WITHIN 15' OF WINDOW)

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	POWER
	RECEPTACLE OUTLET: X = AS FOLLOWS: C - CLOCK HANGER EP - EXPLOSION PROOF G - GROUND FAULT CIRCUIT INTERRUPT S - SAFETY TYPE T - TIMER CONTROLLED WP - WEATHERPROOF
	SINGLE RECEPTACLE, 125V, 20A
	DUPLEX RECEPTACLE, 125V, 20A
	DOUBLE-DUPLEX RECEPT, 125V, 20A
	FILTERED RED DUPLEX RECEPTACLE, 125V, 20A
	FILTERED RED DOUBLE-DUPLEX RECEPT, 125V, 20A
	ISOLATED GROUND DOUBLE DUPLEX RECEPT W/SURGE PROTECTION, 125V, 20A
	ISOLATED GROUND DOUBLE-DUPLEX RECEPT W/SURGE PROTECTION, 125V, 20A
	CEILING-MTD SINGLE RECEPTACLE, 125V, 20A
	CEILING-MTD DUPLEX RECEPTACLE, 125V, 20A
	CEILING-MTD DOUBLE-DUPLEX RECEPTACLE, 125V, 20A
	FILTERED CEILING-MTD RED DUPLEX RECEPT, 125V, 20A
	FILTERED CEILING-MTD RED DOUBLE-DUPLEX RECEPT, 125V, 20A
	ISOLATED GROUND CEILING-MTD DUPLEX RECEPT W/SURGE PROTECTION, 125V, 20A
	ISOLATED GROUND CEILING-MTD DOUBLE-DUPLEX RECEPT W/SURGE PROTECTION, 125V, 20A
	SPECIAL PURPOSE RECEPTACLE X = TYPE
	MOTOR CONNECTION SEE SCHEDULE FOR MOTOR DATA
	EQUIPMENT CONNECTION
	DISCONNECT SWITCH
	STARTER
	COMBINATION STARTER
	FLUSH MOUNTED PANELBOARD

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	480V PANELBOARD
	208V OR 240V PANELBOARD
	TRANSFORMER
	RELAY
	HANDHOLE
	MECHANICAL EQUIPMENT CALLOUT

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	COMMUNICATION
	TELEPHONE OUTLET W = WALL PHONE
	DATA OUTLET, 2- ACTIVE PORTS, 2-BLANK PORTS
	WIRELESS ACCESS POINT
	CEILING MOUNTED PROJECTOR
	T.V. JACK
	DVD STATION
	PRESENTATION STATION
	ANTENNA
	TELECOMMUNICATION ENCLOSURE (LBB)
SECURITY	
	MAGNETIC DOOR CONTACTS
	DOOR CONTACT
	CARD READER
	KEYPAD
	SECURITY MONITOR
	CCTV SECURITY VIDEO CAMERA
	PASSIVE INFRARED MOTION DETECTOR
	CEILING MOUNTED SECURITY ALERT STROBE
	WALL MOUNTED SECURITY ALERT STROBE
	SECURITY ALERT SIREN
	ELECTRIC STRIKE
	SECURITY MOTION DETECTOR, WALL MOUNTED
	SECURITY MOTION DETECTOR 360°, CEILING MOUNTED
AUX SYSTEMS	
	SPEAKER VR- VANDAL RESISTANT
	WALL-MOUNTED SPEAKER
	CLOCK
	PUSH BUTTON

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
	SMOKE DETECTOR
	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	DUCT TYPE SMOKE DETECTOR
	SMOKE BEAM TRANSMITTER
	SMOKE BEAM RECEIVER
	FIRE ALARM MANUAL PULL STATION
	FIRE SMOKE DAMPER
	FIRE ALARM WALL-MOUNTED STROBE
	FIRE ALARM CEILING-MOUNTED STROBE
	FIRE ALARM WALL-MOUNTED SPEAKER
	FIRE ALARM CEILING-MOUNTED SPEAKER
	FIRE ALARM WALL-MTD SPEAKER STROBE
	FIRE ALARM CEILING-MOUNTED SPEAKER STROBE
	FIRE ALARM WALL-MOUNTED BELL
	FIRE ALARM WALL-MOUNTED BELL STROBE
	MAGNETIC DOOR HOLDER
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE
	SWITCH POST INDICATOR VALVE
	ADDRESSABLE RELAY INTERFACE
	POST INDICATOR VALVE
SHEET INDEX	
Sheet Number	Sheet Title
E0.1	SYMBOLS LEGEND, ABBREVIATIONS AND SHEET INDEX
E0.2	GENERAL ELECTRICAL NOTES
E1.0	DEMO ELECTRICAL SITE PLAN
E1.1	ELECTRICAL SITE PLAN
E2.1	LIGHTING PLAN
E2.2	POWER AND SYSTEMS PLAN
E3.1	ENLARGED ROTUNDA
E3.2	ENLARGED ALTERNATE PLANS
E4.1	ELECTRICAL DETAILS
E5.1	ONE-LINE DIAGRAM
E6.1	ELECTRICAL SCHEDULES



BY	REVISIONS	DATE

COFFMAN
ENGINEERS

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Spokane, WA 99201
ph 509.328.2994
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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"=20'
CBM NO.	N/A NAVD 88	VERTICAL	1"=10'
CITY DATUM		SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95		
7.3.2019	DRAWN - BEG	
7.3.2019	DESIGNED - ZLY	
	CHECKED	
	APPROVED	

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	SYMBOLS LEGEND, ABBREVIATIONS AND SHEET INDEX 7.3.2019

DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	E0.1
FILE NAME:	

DATE: Jun 28, 2019 - 7:36am by: giffin

GENERAL NOTES		
THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS		
1.	REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.	
2.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.	
3.	ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC.	
4.	CATALOG NUMBERS USED IN SYMBOLS LIST AND FIXTURE SCHEDULE ARE TO BE AS NOTED OR APPROVED EQUALS. MAINTAIN SPECIFIED GRADE.	
5.	IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED AND READY FOR OPERATION, UNLESS SPECIFICALLY NOTED OTHERWISE AND WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC. IS SHOWN ON THE PLANS. ELECTRICAL SUBCONTRACTOR SHALL BE ON THE PREMISES OPENING DAY.	
6.	LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS AND CASEWORK. SUPPLIERS SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN. WHERE OUTLET GROUPINGS OCCUR, MOUNT BOXES AS CLOSE TO EACH OTHER AS PRACTICAL. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMUM LATERAL SEPARATION OF 12" OR (1) STUD SPACE. CONNECT OUTLETS WITH FLEX STEEL CONDUIT. ON FIRE WALLS SEPARATION MUST BE 24".	
7.	SEAL ALL PENETRATIONS IN RATED WALLS, FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.	
8.	PROVIDE A 220 LB NYLON JET PULL STRING IN ALL EMPTY RACEWAYS.	
9.	PROVIDE EMT RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS. ALL WIRING AND CABLING NOT INSTALLED IN METALLIC RACEWAYS SHALL BE PLENUM RATED.	
10.	ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.	
11.	ALL CONDUIT BELOW CONCRETE SLABS SHALL BE RIGID, HOT-DIPPED GALVANIZED STEEL CONDUIT OR RIGID, CODE APPROVED PVC.	
12.	THE INSTALLATION SHALL COMPLY WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE STATE OF WASHINGTON ADMINISTRATIVE CODE, THE AUTHORITY HAVING JURISDICTION, AND UTILITY REQUIREMENTS.	
13.	THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM FOR THIS BUILDING IS GROUNDED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ARTICLE 250 OF THE N.E.C.	
14.	WORKING SPACE ABOUT ELECTRICAL PANELS, SWITCHGEAR, ETC SHALL COMPLY WITH NEC ARTICLE 110.26.	
15.	ALL LUMINAIRES SHALL BE SECURELY FASTENED AND IN COMPLIANCE WITH ARTICLE 410-16 OF THE 2017 NEC.	
16.	ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN WIRE FOR CONNECTION TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY THE UL LABEL. NO 12 AWG SHALL BE THE MINIMUM SIZE USED FOR POWER WIRING. NO 14 AWG MAY BE USED FOR CONTROL WIRING ONLY. 120 AND 277V CIRCUITS IN EXCESS OF 100' SHALL BE #10 AWG (OR LARGER AS INDICATED) FROM PANEL BOARD TO FIRST OUTLET.	
17.	ALL MULTI-WIRE CIRCUITS SHALL BE WIRED SO DEVICES MAY BE REMOVED WITHOUT BREAKING CONTINUITY OF NEUTRAL CONDUCTOR OR ELSE BE ON A COMMON TRIP BREAKER.	
18.	PROVIDE UN-SWITCHED PHASE CONDUCTOR TO ALL EXIT SIGNS AND INDICATED LUMINAIRES WITH GENERATOR TRANSFER DEVICES.	
19.	PROVIDE ALL EXPANSION FITTINGS, PITCH POCKETS, EQUIPMENT SUPPORTS, AND ACCESS DOORS AS REQUIRED FOR ELECTRICAL WORK.	
20.	PROVIDE EXISTING EQUIPMENT LABELS FOR DISCONNECT SWITCHES, WIRING TROUGHS, ETC. TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED TO EXPOSE CONTRASTING INNER CORE.	
21.	MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS AND COMBINATION STARTERS) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE.	
22.	ELECTRICAL CONTRACTOR SHALL PAY ALL UTILITY CONNECTION CHARGES.	
23.	ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.	
24.	NOT ALL LEGEND AND ABBREVIATIONS ARE NECESSARY OR REQUIRED FOR THIS DRAWING SET.	
25.	WHERE A CONFLICT EXISTS WITHIN THE DOCUMENTS, THE MOST EXPENSIVE OPTION SHALL GOVERN.	
26.	ELECTRICAL CONTRACTOR SHALL TOUR THE PROJECT SITE PRIOR TO BID TO ASSESS EXISTING CONDITIONS, WHICH MAY AFFECT HIS BID. LATER CLAIMS FOR WORK THAT WAS EVIDENT WILL NOT BE ALLOWED.	
27.	ITEMS NOTED AS "TYPICAL" ON ANY DRAWING REFERS TO ALL DRAWINGS.	
28.	NO STRUCTURAL MEMBERS SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.	
29.	ALL RACEWAYS WITHIN THE BUILDING SHALL BE RUN OVERHEAD U.O.N. RACEWAYS SHALL NOT BE RUN UNDER THE FLOOR SLAB UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.	
30.	NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.	
31.	FIRST FLOOR HOMERUNS (TO THE FIRST DEVICE) MAY BE RUN UNDER THE SLAB IN 1" PVC.	
32.	LOCATIONS OF ALL WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK. SUPPLIERS SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.	
33.	ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.	
34.	PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.	
35.	PROVIDE ST1 "EZ-PATH" ASSEMBLIES AT EACH LOCATION WHERE LOW VOLTAGE WIRING PENETRATES A RATED WALL OR CEILING. ASSUME 30 ARE TO BE PROVIDED.	
36.	PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING. SEE SPECIFICATIONS. QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.	
37.	ALL LOW VOLTAGE WIRING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.	
38.	MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPASH UNLESS NOTED OTHERWISE.	
39.	PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES AND DIAGRAMS.	

BRANCH CIRCUIT WIRING		
THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS		
1.	IN GENERAL, ONLY CIRCUIT NUMBERS HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS AND WIRING.	
2.	SHOW ALL RACEWAYS AND WIRING ON AS-BUILT DRAWINGS.	
3.	GENERAL:	
3.1.	MINIMUM RACEWAY SIZE SHALL BE 3/4".	
3.2.	NO MORE THAN 7 #12 AWG CONDUCTORS SHALL BE INSTALLED IN A RACEWAY.	
3.3.	HOMERUN GREATER THAN 75 FEET TO THE FIRST DEVICE SHALL BE NO. 10 AWG.	
3.4.	LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY.	
3.5.	PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.	
3.6.	PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.	
4.	LIGHTING:	
4.1.	PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING AND SWITCHING DUTY AS SHOWN ON THE DRAWINGS.	
4.2.	PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.	
5.	POWER:	
5.1.	PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING SHOWN.	
5.2.	FOR OTHER THAN 15 OR 20 AMP SINGLE PHASE RECEPTACLE BRANCH CIRCUITS PROVIDE A DEDICATED HOMERUN TO THE PANEL.	
5.3.	FOR 30 AMP BRANCH CIRCUITS PROVIDE #10 AWG CONDUCTORS.	
5.4.	FOR 40 AMP AND LARGER BRANCH CIRCUITS PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE DRAWINGS.	
5.5.	PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.	
6.	MECHANICAL EQUIPMENT: PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.	

DEMOLITION PLANS		
THE FOLLOWING GENERAL NOTES APPLY TO ALL DEMOLITION PLAN DRAWINGS		
1.	THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.	
2.	WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.	
3.	REMOVE ALL ELECTRICAL DISTRIBUTION EQUIPMENT, RACEWAYS, AND CONDUCTORS AS SHOWN ON THE EXISTING ONE-LINE DIAGRAM.	
4.	REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF CONSTRUCTION.	
5.	REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.	
6.	EXISTING DEVICES TO BE DEMOLISHED SHOWN BOLD. REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE. U.O.N.	
7.	WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.	
8.	WHERE EXISTING LUMINAIRES ARE REMOVED, MAINTAIN CONTINUITY TO FIXTURES ON THE SAME CIRCUIT TO REMAIN.	
9.	WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.	
10.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING ELECTRICAL EQUIPMENT WITH THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL PANELS AND SWITCHBOARDS AND SHALL VERIFY ALL POWER IS DEAD IN AREAS BEFORE THE DEMOLITION BEGINS. ALL ELECTRICAL EQUIPMENT FROM THE MAIN SERVICE TO AND INCLUDING THE BRANCH CIRCUIT PANELS SHALL BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR. CIRCUITS AND EQUIPMENT FROM THE BRANCH PANELS ON OUT SHALL BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR. ALL EXISTING CONDUITS, WIRE, PANELS, DEVICES, LIGHTING FIXTURES, EXCEPT WHERE NOTED, ARE TO BE REMOVED UNLESS OTHERWISE NOTED.	
11.	EXISTING CONDUITS CAN BE REUSED IF POSSIBLE. PULL IN ALL NEW WIRE.	
12.	ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CONDUITS.	
13.	ALL ABANDONED SURFACE MOUNTED BOXES WILL BE FILLED IN TO MATCH EXISTING WALLS.	
14.	REFER TO ARCHITECTURAL DEMOLITION PLAN FOR EXISTING BUILDING LAY OUT.	
15.	ALL EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR REMOVED FROM SITE AS DIRECTED.	

SITE PLANS		
THE FOLLOWING GENERAL NOTES APPLY TO ALL SITE PLAN DRAWINGS		
1.	COORDINATE ROUTING OF UNDERGROUND RACEWAYS WITH ALL NEW AND EXISTING UTILITIES. REFER TO CIVIL DRAWINGS.	
2.	CONTRACT WITH A LOCATOR SERVICE TO MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.	
3.	ALL SITE LIGHTING RACEWAYS SHALL BE 1" C. U.O.N.	
4.	ROUTE ALL SITE LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.	
5.	PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, COMPACTION, AND PATCHING FOR INSTALLATION OF UNDERGROUND RACEWAYS AND UTILITY SERVICES.	
6.	BACKFILL ALL TRENCHES (INCLUDING THOSE FOR UTILITY SERVICES) WITH STRUCTURAL BACKFILL OR GRAVEL, BORROW PER WSDOT STANDARDS.	
7.	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COORDINATION WITH THE SERVING UTILITY COMPANIES INCLUDING COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS FOR SERVICE.	
8.	CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND EASEMENTS.	

EQUIPMENT CONNECTIONS		
1.	VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.	
2.	INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.	
3.	PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP DRAWINGS.	
4.	PROVIDE HARDWIRED CONNECTION, RECEPTACLE OR FUSED DISCONNECT SWITCH AS SHOWN ON MANUFACTURER SHOP DRAWINGS.	

LIGHTING PLANS		
THE FOLLOWING GENERAL NOTES APPLY TO ALL LIGHTING PLAN DRAWINGS		
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.	
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.	
3.	COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.	
4.	ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.	
5.	INSTALL AND WIRE REMOTE BALLASTS AND DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.	

POWER PLANS		
THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER PLAN DRAWINGS		
1.	CIRCUIT ALL FIRE/SMOKE DAMPERS AND SMOKE DAMPERS FROM NEAREST 120V EMERGENCY PANEL WITH 1/2" 3#12 UTILIZE SPARE 20A-1P BREAKER PROVIDED. RECORD CIRCUITING ON AS-BUILT DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS.	
2.	COORDINATE LOCATIONS OF BAS CONTROL POWER WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.	
3.	PRIOR TO ORDERING EQUIPMENT OR ROUGH-IN, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.	
4.	REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR EQUIPMENT RATINGS AND FEEDER SIZES.	
5.	PROVIDE DISCONNECT SWITCH OR COMBINATION STARTER FOR EACH PIECE OF EQUIPMENT AS SHOWN ON MECHANICAL EQUIPMENT CONNECTION SCHEDULE.	
6.	PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.	
7.	ALL EXTERIOR RECEPTACLES SHALL BE WP/6FL.	
8.	ALL VENDING MACHINE RECEPTACLES SHALL BE GF.	
9.	ALL EXTERIOR DISCONNECTS/STARTERS SHALL BE NEMA 3R.	
10.	ALL HOMERUNS OVER 75' SHALL BE #10 AWG MINIMUM.	
11.	POWER AND SPECIAL SYSTEMS TO SHARE A COMMON FLOOR BOX.	
12.	FEEDER ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH MECHANICAL SYSTEMS AND BUILDING STRUCTURE. PROVIDE OFFSETS AS REQUIRED.	
13.	ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GF1 TYPE.	
14.	COORDINATE WITH THE ELEVATOR SHOP DRAWINGS AND THE ELEVATOR INSPECTOR PRIOR TO ROUGH-IN OF THE ELEVATOR MACHINE ROOM.	
15.	ALL HEAT TRACE CIRCUITS SHALL BE FED WITH GFPE CIRCUIT BREAKERS.	

SYSTEMS PLANS		
THE FOLLOWING GENERAL NOTES APPLY TO ALL SPECIAL SYSTEMS PLAN DRAWINGS		
1.	MINIMUM RACEWAY SIZE SHALL BE 1" FOR TELECOMMUNICATIONS CABLING AND 3/4" FOR ALL OTHER SYSTEMS.	
2.	ALL SPECIAL SYSTEMS WIRING EXCEPT FIRE ALARM SHALL BE RUN UTILIZING OPEN WIRING METHOD ABOVE ACCESSIBLE CEILINGS. PROVIDE METALLIC RACEWAYS FOR WIRING INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILING, WHERE EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40%.	
3.	FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS.	
4.	PROVIDE ADDRESSABLE DUCT DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.	
5.	PROVIDE FA CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCHES. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.	
6.	PROVIDE 3/4" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8" DIMENSION VERTICAL. PAINT FLAT WHITE.	
7.	PROVIDE 1" C. FROM EACH FLOOR BOX TO ACCESSIBLE CEILING LOCATION. THIS IS IN ADDITION TO THE RACEWAYS SHOWN ON THE DRAWINGS.	
8.	ALL EXTERIOR FIRE ALARM AND INTERCOM DEVICES SHALL BE WEATHERPROOF.	
9.	PROVIDE EXTERIOR FIRE ALARM BELL AND STROBE AT LOCATION DIRECTED BY FIRE MARSHALL.	
10.	STAPLES SHALL NOT BE USED TO SECURE LOW VOLTAGE CABLING.	
11.	ALL CABLING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.	
12.	EXTERIOR INTERCOM SPEAKERS SHALL BE WEATHERPROOF AND VANDAL RESISTANT.	

KITCHEN PLANS		
1.	COORDINATE THE EXACT LOCATION OF ALL KITCHEN EQUIPMENT CONNECTIONS WITH FOOD SERVICE ROUGH-IN PLANS AND ARCHITECTURAL ELEVATIONS.	
2.	VERIFY POWER AND ROUGH-IN REQUIREMENTS OF ALL KITCHEN EQUIPMENT WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.	
3.	ALL 15 AND 20 AMP RECEPTACLES IN THE KITCHEN SHALL BE GF1 TYPE.	
4.	PROVIDE ALL ELECTRICAL CONNECTIONS AND WIRING AS SHOWN ON FOOD SERVICE ROUGH-IN PLANS AND SPECIFICATIONS.	
5.	WIRING METHODS FOR CLASS 1 HOODS SHALL COMPLY WITH NFPA 96.	
6.	ALL HEAT TRACE CIRCUITS BE FED WITH GFPE CIRCUIT BREAKERS.	

ONE-LINE DIAGRAM		
1.	ALL FEEDERS ARE COPPER WITH THIN/THWN INSULATION.	
2.	PROVIDE PULL BOXES AS REQUIRED BY THE NEC.	
3.	SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.	
4.	THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.	
5.	FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.	
6.	THE ELECTRICAL DISTRIBUTION SECTION SHALL BE FULLY RATED. A SERIES RATED SYSTEM IS NOT ACCEPTABLE.	
7.	ALL TRANSFORMERS ARE 480V 3 PHASE 3 WIRE PRIMARY. 208Y/120V 3 PHASE, 4 WIRE SECONDARY. NEMA TP-1 RATED, U.O.N.	
8.	ALL TRANSFORMERS SHALL BE K-4 RATED, U.O.N.	
9.	NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.	
10.	PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDY TO INCLUDE ALL OVERCURRENT DEVICES. SET OVERCURRENT DEVICE SETTINGS AS INDICATED BY STUDY. PROVIDE ARC FLASH LABELS AS INDICATED BY STUDY.	
11.	TRANSFORMER SECONDARY CONDUCTORS SHALL BE NO MORE THAN 10-FEET LONG PER NEC ARTICLE 240.21 (C) 2.	
12.	TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE WAC.	
13.	ALL CIRCUIT BREAKERS SERVING HD LIGHTING SHALL BE HD RATED.	

LUMINAIRE SCHEDULE GENERAL NOTES	
1.	THE UNDERLINED LUMINAIRE IN THE SCHEDULE REPRESENTS THE "BASIS OF DESIGN". ALL OTHER MANUFACTURERS LISTED MUST MEET OR EXCEED ALL REQUIREMENTS OF THE BASIS OF DESIGN.
2.	VERIFY THE VOLTAGE OF ALL LUMINAIRES. REFER TO PLANS FOR SPECIFIC VOLTAGE REQUIREMENTS.
3.	ALL LUMINAIRES TO BE PROVIDED WITH ALL ROUGH-IN AND TRIM ASSEMBLIES FOR A COMPLETE INSTALLATION.
4.	ALL LUMINAIRES TO BE PROVIDED WITH A CUSTOM COLOR/FINISH AS SELECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED.
5.	ALL LUMINAIRES TO BE UL LISTED AND LABELED. EXTERIOR LUMINAIRES TO BE UL "WET" LABELED.
6.	LUMINAIRES SHALL BE PROVIDED WITH AN INTERNAL DISCONNECTING MEANS WHICH COMPLIES WITH NEC ARTICLE 410.
7.	ALL FLUORESCENT AND HID BALLASTS TO BE PROVIDED WITH AN IN-LINE FUSE.
8.	ALL LUMINAIRES TO HAVE AN INTEGRAL BALLAST UNLESS A REMOTE BALLAST IS SPECIFIED.
9.	TANDEM OR THROUGH-WIRED BALLASTS ARE NOT ALLOWED. PROVIDE A SEPARATE BALLAST FOR EVERY 4 LUMINAIRE SECTION.
10.	PROVIDE WIRE GUARDS AND PLASTIC LAMP SLEEVES FOR ALL FLUORESCENT LINEAR STRIP LUMINAIRES.
11.	FOR HID LUMINAIRES FED FROM THE GENERATOR PROVIDE QUARTZ RESTRIKE WITH STANDBY TIME DELAY PER UL 1598. QUARTZ LAMP IS KEPT ON UNTIL THE HID LAMP REACHES 80% OF FULL LIGHT OUTPUT.
12.	ALL METAL HALIDE LAMP/BALLASTS SHALL BE PULSE START.
13.	PROVIDE GLARE SHIELDS FOR ALL POLE MOUNTED LUMINAIRE.
14.	THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL INTERIOR ELEVATIONS AND THE CASEWORK MANUFACTURER SHOP DRAWINGS TO DETERMINE THE LENGTH OF UNDER COUNTER LIGHT LUMINAIRE.
15.	REFER TO ARCHITECTURAL ELEVATIONS TO DETERMINE PENDANT LENGTH.
16.	REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.
17.	AM ADJUSTABLE LUMINAIRES AS DIRECTED BY THE ENGINEER
<u>SUBSTITUTIONS</u>	
1.	NO POST BID SUBSTITUTIONS WILL BE CONSIDERED.
2.	WHERE ONLY ONE MANUFACTURER IS LISTED, PRE-BID SUBSTITUTIONS WILL ONLY BE CONSIDERED IF A SAMPLE OF THE FIXTURE IS PROVIDED.

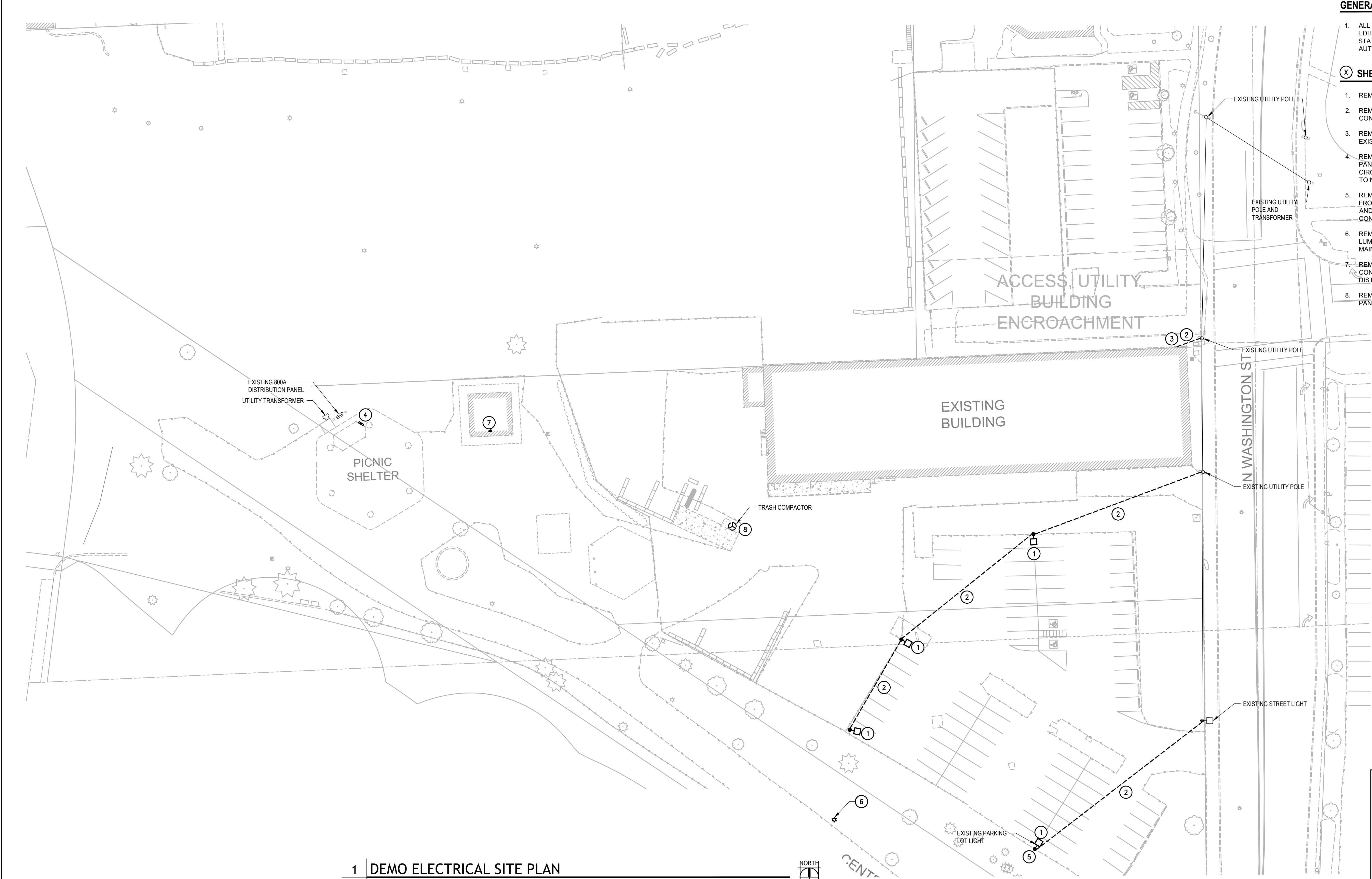
WASHINGTON STATE NONRESIDENTIAL ENERGY CODE COMPLIANCE		
1.	LIGHTING: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION VERIFYING THAT ALL LAMPS AND BALLASTS HAVE BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE A LIST WHICH INDICATES THE EXACT PART NUMBER OF THE LAMP AND BALLAST PROVIDED FOR EACH FIXTURE TYPE. INCLUDE THE CERTIFICATION AND THE LAMP/BALLAST LIST IN THE O&M MANUAL.	
2.	COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.	
3.	TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4.2 OF THE "GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS" PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).	

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES		
1.	INFORMATION PRESENTED IN THIS SCHEDULE IS BASED ON EQUIPMENT SELECTED BY THE MECHANICAL ENGINEER DURING THE DESIGN PROCESS (PRE-BID). THE ACTUAL EQUIPMENT SELECTED BY MECHANICAL CONTRACTOR MAY BE DIFFERENT. PRIOR TO ROUGH-IN, OR ORDERING EQUIPMENT, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS OF EACH PIECE OF EQUIPMENT.	
2.	ALL DISCONNECTS AND STARTERS ARE FUSED, UNLESS OTHERWISE NOTED.	
3.	ALL DISCONNECTS ARE 3-POLE UNLESS OTHERWISE NOTED.	
4.	DISCONNECT SWITCHES LOCATED OUTSIDE SHALL BE NEMA 3R. REFER TO MECHANICAL PLANS.	
5.	LOCATE ALL DISCONNECTING MEANS PER NEC 430-102B AND AHJ REQUIREMENTS.	
6.	FUSES SIZES SHOWN ARE APPROXIMATE. PROVIDE FUSES PER EQUIPMENT MANUFACTURERS REQUIREMENTS.	
7.	VARIABLE FREQUENCY DRIVES ARE PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL, U.O.N.	
8.	ABBREVIATIONS HRS: HORSEPOWER RATED MOTOR DISCONNECT WITH OVERLOAD PROTECTION AS: AMPERE SWITCH AF: AMPERE FUSE	
9.	WHERE NO STARTER IS LISTED STARTER TO BE PROVIDED BY MECHANICAL.	

REMODEL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. WHERE THE PHRASE "EXTENDED WIRING" IS USED IT REQUIRES THE REMOVAL OF EXISTING WIRING, THE EXTENSION OF THE CONDUIT RUN AND THE PULLING IN OF NEW WIRING TO THE SPECIFIED PANEL.
2. ALL RELOCATED EQUIPMENT TO BE FED FROM CONDUIT EXTENSION OF EXISTING CIRCUIT WHERE POSSIBLE. PULL IN NEW CONDUCTORS ON ALL BRANCH CIRCUITS FOR RELOCATED EQUIPMENT.
3. ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES WHICH ARE KEPT IN SERVICE ARE TO BE REPLACED WITH NEW SWITCHES, OUTLETS AND PLATES (STAINLESS).
4. WHERE EXISTING CONDUIT IN WALLS TO BE REMOVED SERVE OUTLETS OR GROUPS OF OUTLETS THAT ARE TO REMAIN IN SERVICE. THESE CONDUITS SHALL BE RELOCATED AND WIRING TO BE PROVIDED TO MAINTAIN CONTINUITY OF SERVICE.
5. WHERE EXISTING LIGHT FIXTURES INTERFERE WITH INSTALLATION OF NEW OR EXISTING MECHANICAL DUCT WORK, PIPING, ETC. ELECTRICAL CONTRACTOR IS TO REMOVE FIXTURES AS REQUIRED AND COORDINATE REINSTALLATION WITH MECHANICAL CONTRACTOR.
6. EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.
7. ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILING AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.
8. ALL EXPOSED ELECTRICAL CONDUIT, WIRE, DEVICES, EQUIPMENT ETC. THAT ARE TO BE ABANDONED, SHALL BE REMOVED TO THE POINT OF CONCENTRATION.
9. ANY EXISTING OUTLET ON A WALL TO BE REMOVED SHALL HAVE CUTS CUT OFF BELOW FLOOR.
10. ANY CONDUIT SHALL BE RUN CONCEALED IN NEW CONSTRUCTION. IN EXISTING MASSONRY, THE WALL SHALL BE CHANGED TO INSTALL CONDUIT BOXES AFTER THE CONDUIT HAS BEEN INSTALLED. THE WALL SHALL BE REFINISHED TO A SMOOTH AND UNIFORM FINISH. ALL ELECTRICAL STRUCTURAL SPECIFICATIONS.
11. EXISTING FIXTURES NOTED "E" ARE TO REMAIN IN SERVICE AND CONTINUITY OF WIRING TO THESE FIXTURES ARE TO BE MAINTAINED TOGETHER WITH EXISTING SWITCHING UNLESS SWITCHING IS NOTED AS BEING RELOCATED. IN WHICH CASE NEW SWITCHES AND CONNECTIONS TO EXISTING FIXTURES SHALL BE INSTALLED. PULL IN NEW WIRING UTILIZING EXISTING CONDUITS WHEREVER POSSIBLE.
12. EXISTING RECEPTACLES DENOTED "E" ARE TO REMAIN IN SERVICE AND CONTINUITY OF WIRING TO THESE DEVICES IS TO BE MAINTAINED. INSTALL NEW WIRING TO PANEL.
13. EXISTING FIXTURES, SWITCHES AND OUTLETS ARE TO REMAIN IN SERVICE AND CONTINUITY OF SERVICE IS INTERRUPTED. CONDUIT SHALL BE EXTENDED AS REQUIRED AND NEW WIRING INSTALLED TO DESIGNATED PANEL.
14. THE EXISTENCE, LOCATION AND USABILITY OF EXISTING DEVICE BOXES AND CONDUIT TO BE REUSED SHALL BE VERIFIED. IF A DEVICE BOX OR CONDUIT TO BE REUSED NO LONGER EXISTS OR IS UNUSABLE AN ALTERNATE METHOD SHALL BE USED TO SERVICE THE DEVICE SHOWN.
15. EXISTING CONDUIT TO BE REMOVED IF IN GOOD CONDITION. CONTRACTOR TO VERIFY CONDITION OF CONDUIT WHERE POSSIBLE. REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.
16. EXACT LOCATIONS OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMMODATE NEW INSTALLATION.
17. EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION, WHETHER EXISTING OR NOT, WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND SITE OBSERVATIONS. AS-BUILT DRAWINGS ARE INCLUDED FOR REFERENCE ONLY TO ASSIST WITH BID AND CONSTRUCTION. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOW CONDITIONS AND ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK WITH THEM WITH ASSISTANCE FROM BUILDING OWNER AND ELECTRICAL ENGINEER.
18. WHERE EXISTING LIGHT FIXTURES ARE TO REMAIN IN SERVICE MAINTAIN EXISTING CIRCUITING AND SWITCHING. CONTRACTOR SHALL IDENTIFY, MARK, AND MAINTAIN CIRCUIT CONTINUITY AND SWITCHING INTEGRITY REGARDLESS OF SHOWN CONDITIONS ON DRAWINGS.



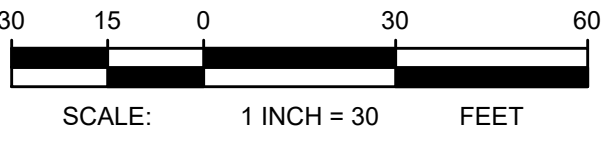
GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR THE LOCAL AUTHORITY HAVING JURISDICTION.


(X) SHEET NOTES

- 1. REMOVE EXISTING AREA LUMINAIRE AND POLE.
- 2. REMOVE EXISTING OVER HEAD ELECTRICAL CONDUCTORS. COORDINATE WITH UTILITY.
- 3. REMOVE EXISTING OVERHEAD SERVICE TO EXISTING TO BE DEMOLISHED BUILDING.
- 4. REMOVE EXISTING SHELTER ELECTRICAL PANELS. PRESERVE AND PROTECT BRANCH CIRCUIT CONDUITS. CONDUIT TO BE EXTENDED TO NEW PANEL LOCATIONS, SEE SHEET E1.1
- 5. REMOVE EXISTING SURFACE MOUNTED CONDUIT FROM POLE BACK TO GROUND LEVEL. PROTECT AND PRESERVE EXISTING CONDUITS. ROUTE CONDUITS TO NEW HANDHOLE SEE SHEET E-101.
- 6. REMOVE AND PROTECT EXISTING PEDESTRIAN LUMINAIRE AND POLE TO BE RELOCATED. MAINTAIN EXISTING CIRCUIT CONTINUITY.
- 7. REMOVE EXISTING RESTROOM PANELBOARD AND CONDUIT/CONDUCTORS BACK TO EXISTING 800A DISTRIBUTION PANEL.
- 8. REMOVE CONDUIT ND CONDUCTORS BACK TO PANEL SERVING TRASH COMPACTOR.

1 DEMO ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"



BY	REVISIONS	DATE

**COFFMAN
ENGINEERS**
10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"=20'
CBM NO.	N/A	VERTICAL	1"=10'
CITY DATUM		SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

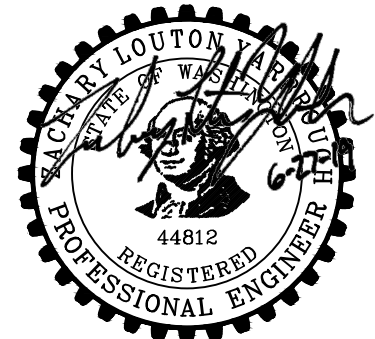
CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95			
7.3.2019	DRAWN	BEG	
7.3.2019	DESIGNED	ZLY	
	CHECKED		
	APPROVED		



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: DEMO ELECTRICAL SITE PLAN
7.3.2019

DATE: Jun 28, 2019 - 7:37am by: giffin



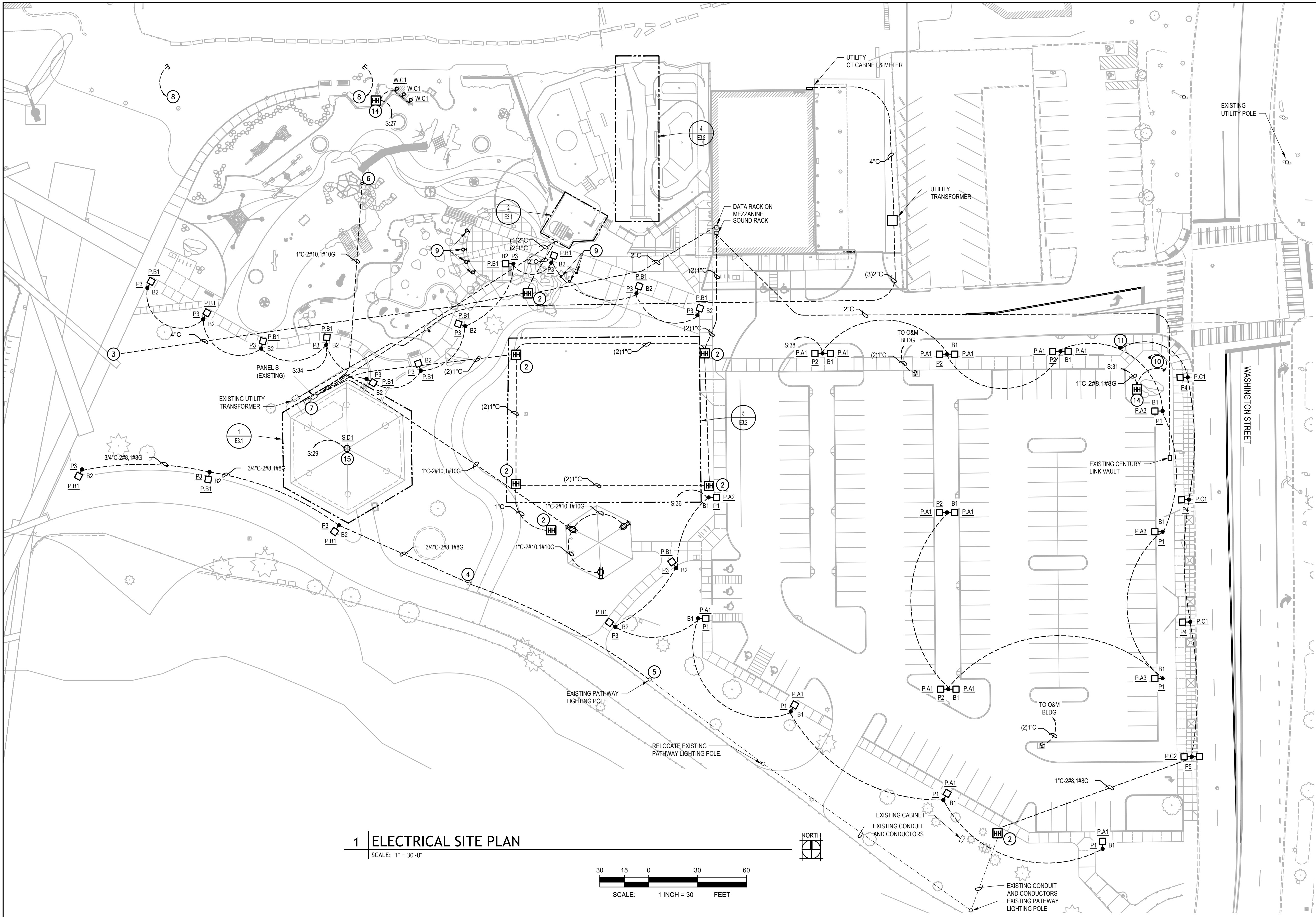
DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER	DRAWING NUMBER
	E1.0

PR	OF	REVISION NO.

FILE NAME:



GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL SITE LIGHTING POWER CIRCUITS SHALL BE 1\"/>

X SHEET NOTES

- PROVIDE A NEMA 3R, 200A/3P FUSE DISCONNECT FOR SPLASH PAD EQUIPMENT. VERIFY FUSE SIZE WITH POOL EQUIPMENT PROVIDER.
- PROVIDE A CARSON 2200 12\"/>
- LOCATE EXISTING 4\"/>
- INTERCEPT EXISTING PATHWAY LIGHTING CIRCUIT AT EXISTING LIGHT POLE AND EXTEND TO NEW PATHWAY LIGHTS.
- RELOCATE AND INSTALL EXISTING PATHWAY LIGHT AND POLE PRESERVED DURING DEMOLITION. CONNECT TO EXISTING PATHWAY LIGHTING CIRCUIT. UTILIZE EXISTING CONDUIT. INSTALL NEW CONDUCTORS FROM EXISTING UPSTREAM LIGHT POLE.
- CONNECT CIRCUIT TO STOP/GO PLAY STRUCTURE LIGHT. COORDINATE WITH PLAY STRUCTURE INSTALLER.
- PROVIDE HUBBELL WISCAPE WIRELESS GATEWAY (P/N: WIR-GATEWAY3). MOUNT TO UNISTRUT RACK NEXT TO PANEL S. ENERGIZE FROM PANEL S.40.
- STUB AND CAP 1\"/>
- REFER TO E3.2 FOR MAMMOTH AND STEP LIGHTING.
- MAMMOTH ALTERNATE #6: INSTALL (2) S.C1 LUMINAIRES AND AIM TOWARDS SCULPTURE. CONFIRM FINAL LOCATION WITH OWNER/ ARCHITECT.
- POWER METER FOR TRAFFIC CONTROL LIGHTS. REFER TO SHEET T2.0.
- UTILITIES SPARE CIRCUIT BREAKER IN METER LOAD CENTER TO POWER PEDESTRIAN LIGHT POLES ALONG WASHINGTON STREET AND CENTENNIAL TRIAL.
- INSTALL NEW STREET/ PEDESTRIAN POLES PER CITY STANDARD PLAN NO. J-120.
- PROVIDE CARSON HANDHOLE. OR APPROVED EQUAL. SIZE PER REMOTE DRIVER MANUFACTURER'S RECOMMENDATION. PROVIDE WISCAPE WIRELESS MODULE AND APPROPRIATE POWER SUPPLIES.
- MOUNT S.D1 LUMINAIRE TO EXISTING J-BOX. ADJUST TRUNNION TO PROPERLY SUSPEND FIXTURE AND ALLOW FOR WISCAPE WIRELESS MODULE TO CONTROL FIXTURE. PROVIDE APPROPRIATE AUXILIARY POWER SUPPLY FOR MODULE.



DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	E1.1
FILE NAME:	REVISION NO.

BY	REVISIONS	DATE

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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL 1\"/>
CBM NO. N/A	VERTICAL 1\"/>
CITY DATUM	SCALE

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
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7.3.2019	DESIGNED ZLY
	CHECKED
	APPROVED



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: ELECTRICAL SITE PLAN
7.3.2019

DATE: Jun 28, 2019 - 7:37am by: giffin

GENERAL NOTES

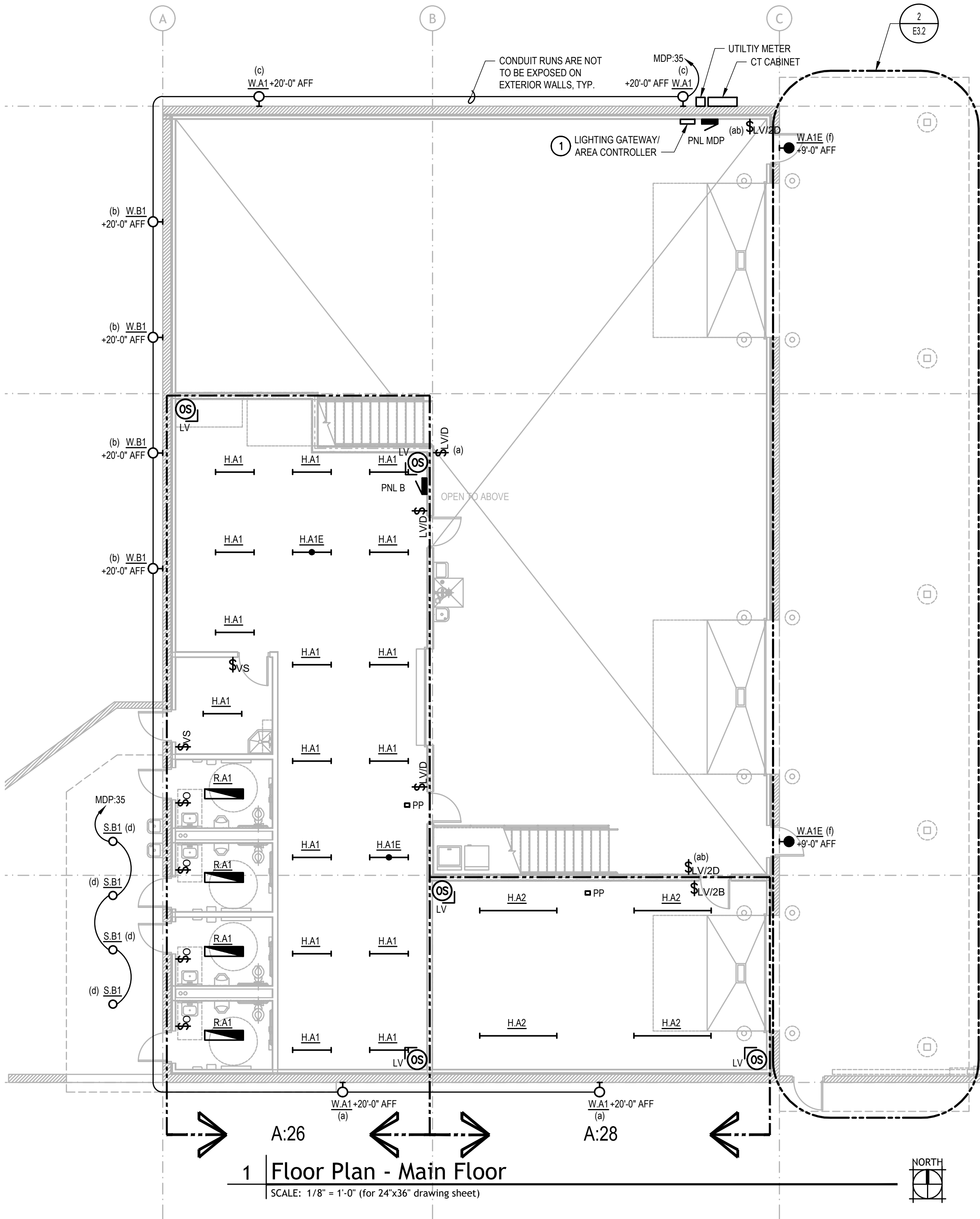
1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR THE LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE FINAL LOCATION OF ALL STRIP LUMINAIRES TO AVOID CONFLICTS WITH DUCT WORK, PIPING AND MECHANICAL EQUIPMENT. MOUNT LUMINAIRES AT THE MOST PRACTICAL LOCATION WITH LEAST OBSTRUCTION TO THE LIGHT SOURCE AND ACCESSIBILITY FOR FUTURE LUMINAIRE MAINTENANCE.
3. LOCATION OF DISTRIBUTIVE LIGHTING CONTROL DEVICES SHOWN ON DRAWINGS FOR CLARITY. INSTALL DEVICES SHOWN IN THE NEAREST ACCESSIBLE CEILING SPACE FOR FUTURE MAINTENANCE.
4. ALL SPACES CONTAINING A LOW VOLTAGE SWITCH WITH A DIMMING CAPABILITY SHALL AUTO TURN ON VIA OCCUPANCY SENSORS TO 50% LUMEN OUTPUT AND HAVE THE CAPABILITY OF OVERRIDING THE LUMINAIRES TO 100% LUMEN OUT PUT, UNLESS NOTED OTHERWISE.
5. ALL RESTROOM LUMINAIRES SHALL AUTO TURN ON VIA OCCUPANCY SENSORS TO 100% LUMEN OUTPUT.
6. INSTALL APPROPRIATE AMOUNT OF DISTRIBUTIVE LIGHTING CONTROL DEVICES TO CONTROL VARIOUS SWITCH LEGS IN EACH AREA. THE INSTALLATION OF LIGHTING CONTROL DEVICES, DAYLIGHT SENSORS, OCCUPANCY SENSORS AND COMMISSIONING SHALL BE DONE TO MEET THE LATEST ENERGY CODE REQUIREMENTS.

SHEET NOTES

1. SUPPLY POWER TO THE LIGHTING AREA CONTROLLER VIA MDP:39. PROVIDE RACEWAY FOR ROOMCONTROLLERS FOR THE SWITCH LEGS (a, b, c, d, f) ON THIS SHEET AND VEHICLE CANOPY ALTERNATE #4 ON SHEET E3.2.

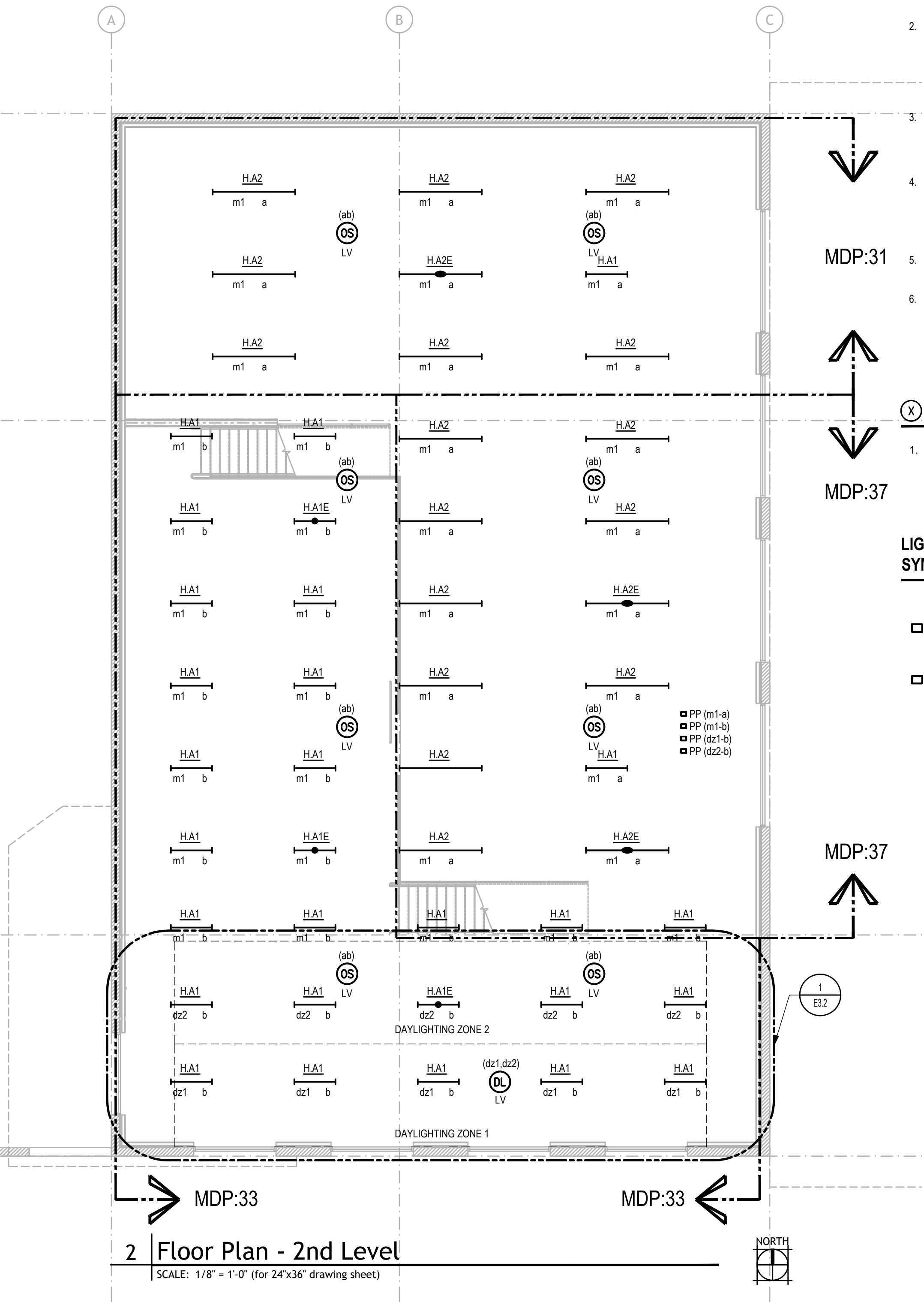
LIGHTING CONTROLS SYMBOL LEGEND

- PP(X) DISTRIBUTIVE LIGHTING CONTROL POWER PACK DEVICE. SEE WIRING DETAIL 5 ON SHEET E5.2.
- PLC(X) PLUG LOAD CONTROL POWER PACK OR APPROVED EQUAL. REFER TO TYPICAL PLUG LOAD CONTROLLER WIRING DIAGRAM AND PLUG LOAD CONTROL DEVICE DETAIL 4 ON SHEET E5.2. PROVIDE ONE PER ELECTRICAL CIRCUIT. REFER TO POWER PLANS FOR QUANTITY OF CIRCUITS.
- X - SUBSCRIPT INDICATED SWITCH GROUP
- PP (m1-a)
PP (m1-b)
PP (dz1-b)
PP (dz2-b)



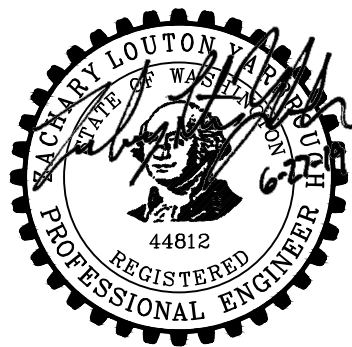
1 Floor Plan - Main Floor

SCALE: 1/8" = 1'-0" (for 24"x36" drawing sheet)



2 Floor Plan - 2nd Level

SCALE: 1/8" = 1'-0" (for 24"x36" drawing sheet)



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

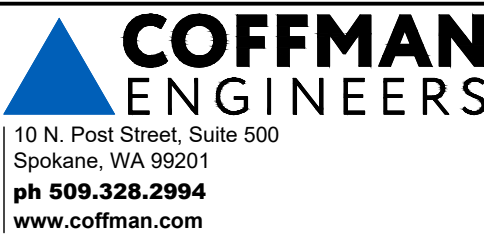
CITY PURCHASING NUMBER

DRAWING NUMBER

E2.1

FILE NAME:

DATE: Jun 28, 2019 - 7:37am by: giffin



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCHMARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"=20'
CBM NO.	N/A	VERTICAL	1"=10'
CITY DATUM	SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95			
7.3.2019	DRAWN	BEG	
7.3.2019	DESIGNED	ZLY	
	CHECKED		
	APPROVED		

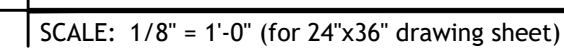
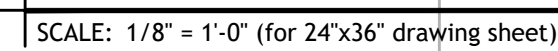


CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
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(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE: LIGHTING PLAN 7.3.2019


1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR THE LOCAL AUTHORITY HAVING JURISDICTION.

1. PROVIDE A 2" C FROM SITE COMMUNICATION VAULT. SEE SHEET E1.1 FOR LOCATION.
2. SEE DETAIL #5 ON SHEET E4.1 FOER ACCESS CONTROL DOOR ROUGH-IN.
3. PROVIDE A 3/4"-(-1) CAT6 CABLE. RUN TO SECURITY PANEL.



P#:	OF	REVISION NO.:
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FILE NAME:



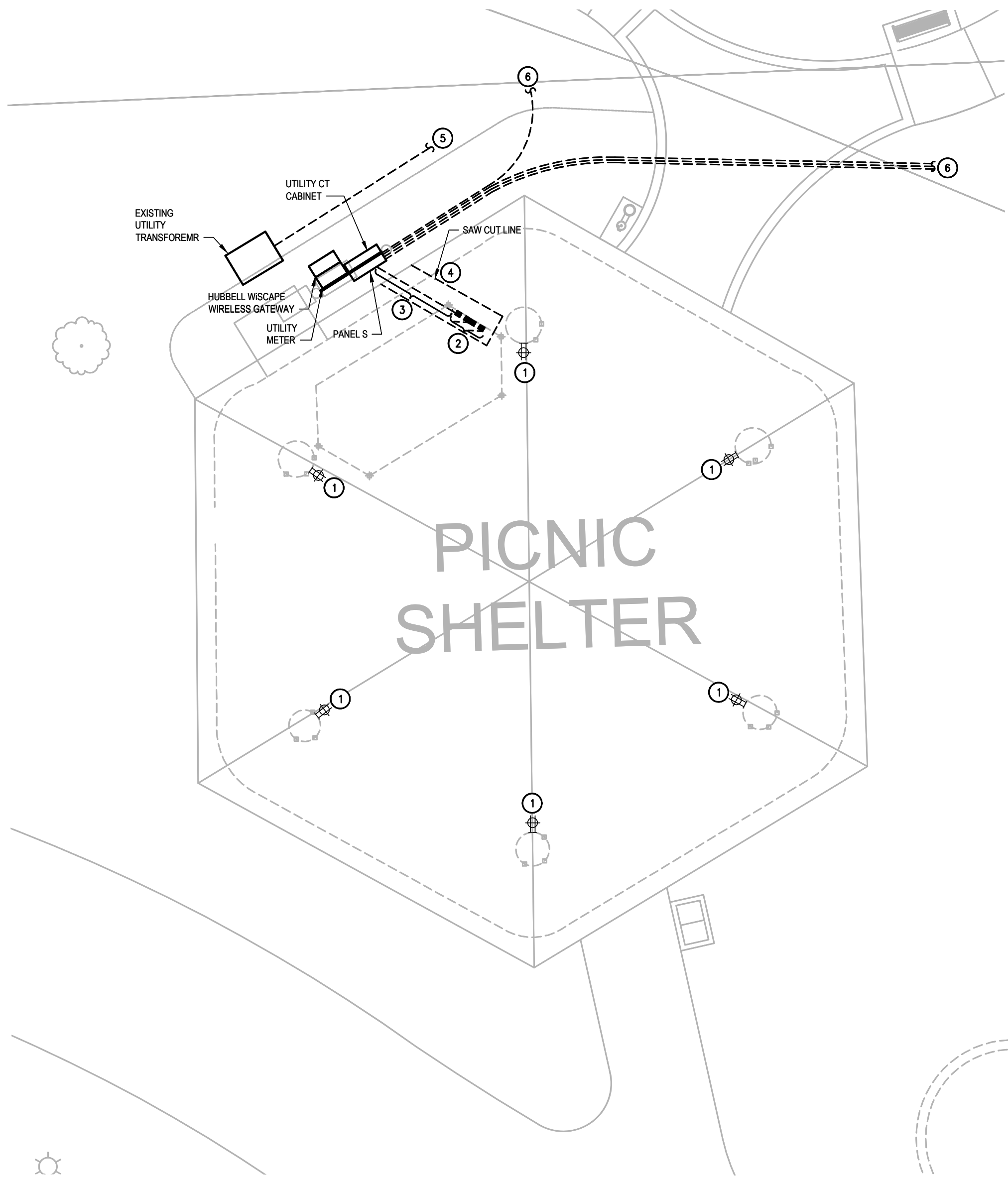
COFFMAN
ENGINEERS

10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

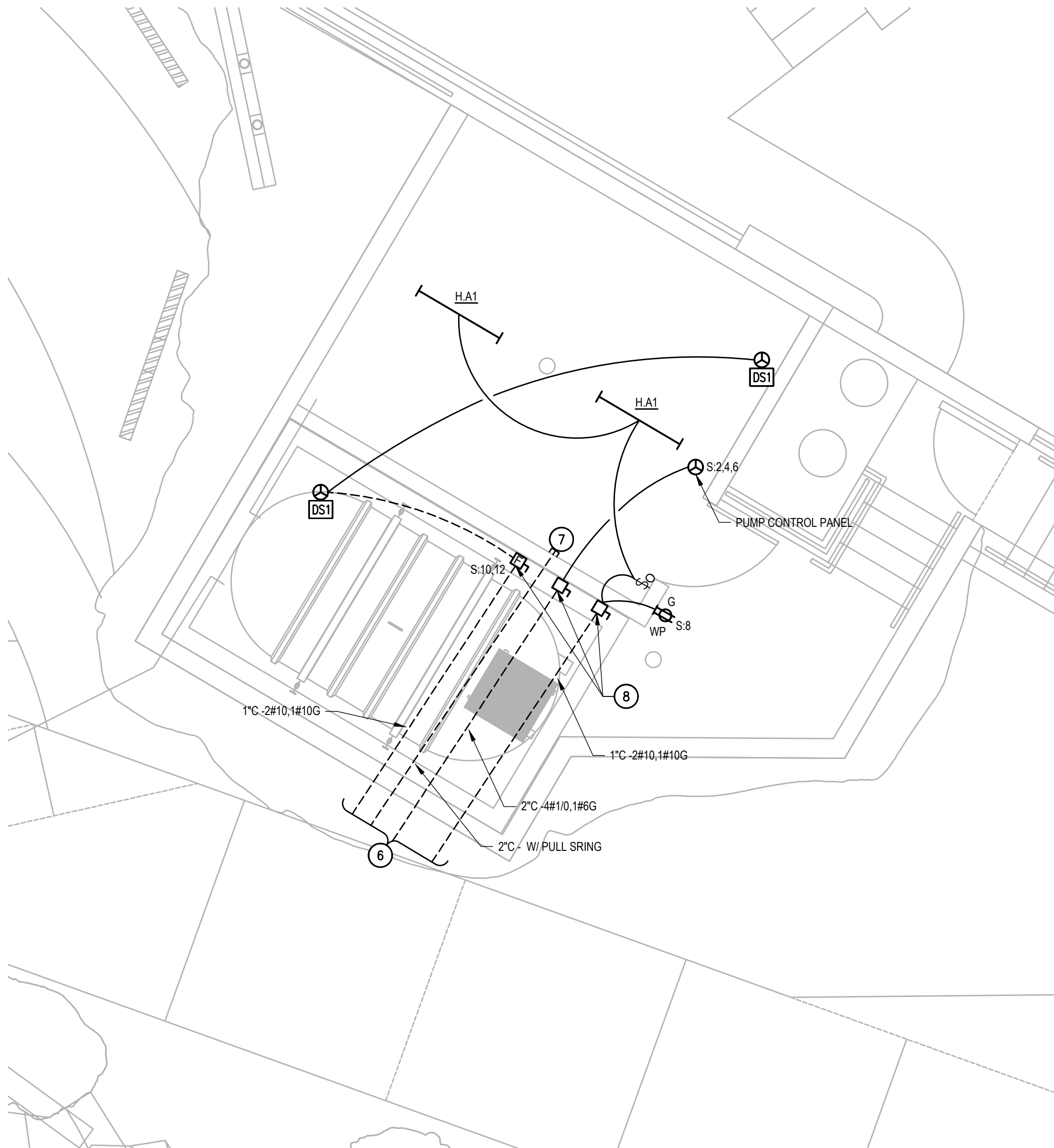
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

DATE: Jun 28, 2019 - 7:37am by: giffin

FILE NAME:



1 | ENLARGED ROTUNDA PLAN
SCALE: 1/8" = 1'-0" (for 24"x36" drawing sheet)



2 | ENLARGED PUMP HOUSE PLAN
SCALE: 1/4" = 1'-0" (for 24"x36" drawing sheet)

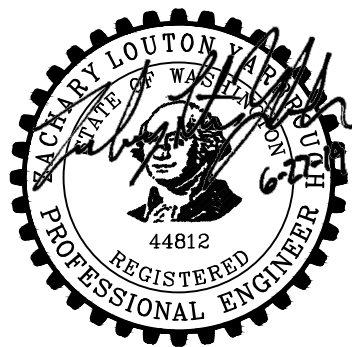


GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE STATE OF WASHINGTON OR THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL REVIEW THE "WP" DRAWINGS FOR ADDITIONAL ELECTRICAL SCOPE OF WORK FOR PUMP SYSTEM INSTALLATION.

X SHEET NOTES

1. REPLACE EXISTING QUAD RECEPTACLE WILL NEW, MAINTAIN EXISTING BACK BOX. REPLACE EXISTING CONDUCTORS WITH NEW (2#12,1#12G). UTILIZE EXISTING CONDUIT RACEWAY.
2. REMOVE PANELS "C" AND "CI".
3. INTERCEPT AND EXTEND EXISTING CONDUITS SERVING THE ROTUNDA RECEPTACLE AND LIGHTS AND EXTEND TO PANEL S.
4. SAW CUT EXISTING CONCRETE SLAB AND REMOVE SECTION TO REROUTE EXISTING CONDUITS. PATCH CONCRETE SLAB MATCHING EXISTING THICKNESS AND SLOPE.
5. UTILITY PRIMARY CONDUIT, SEE CONTINUATION TO O&M BUILDING UTILITY TRANSFORMER AND SHEET E1.1.
6. SEE SITE PLAN SHEET E1.1 FOR CONTINUATION OF CONDUITS.
7. STUB UP AND CAP 2"C COMMUNICATION CONDUIT FOR FUTURE.
8. DISCONNECT SWITCHES SHALL BE NEMA3R.



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER


DRAWING NUMBER

E3.1

FILE NAME:

DATE: Jun 28, 2019 - 7:37am by: giffin

BY	REVISIONS	DATE

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Spokane, WA 99201
ph 509.328.2994
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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCHMARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"=20'
CBM NO.	N/A	VERTICAL	1"=10'
CITY DATUM		SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

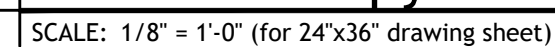
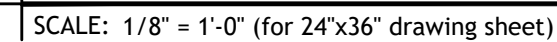
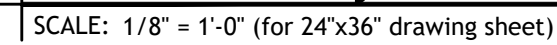
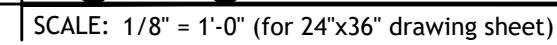
7.3.2019	DRAWN	BEG
7.3.2019	DESIGNED	ZLY
	CHECKED	
	APPROVED	



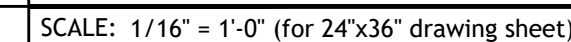
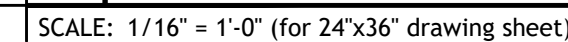
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

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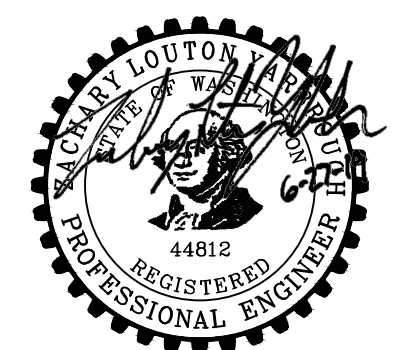
PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET
SHEET TITLE: ENLARGED PLANS
7.3.2019



1. NOT USED.



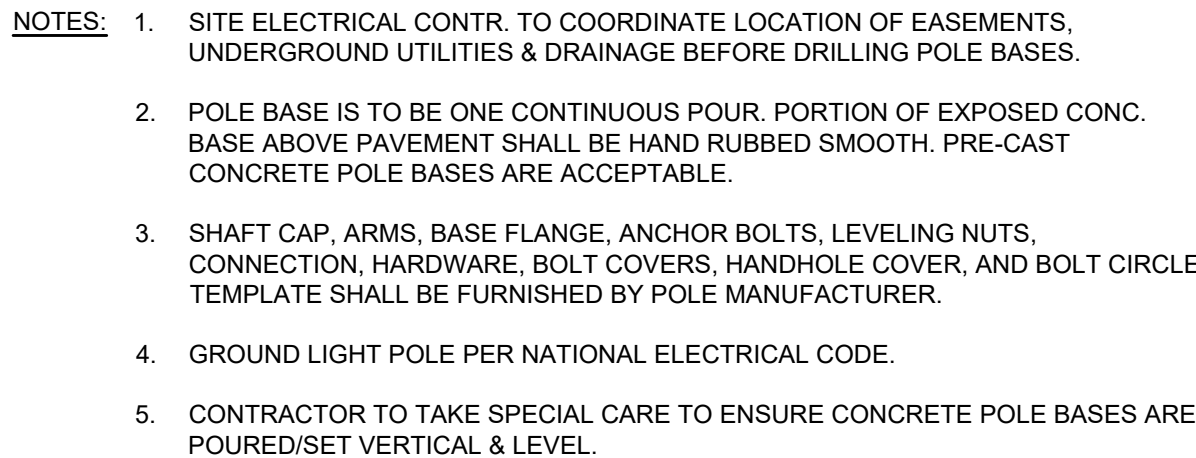
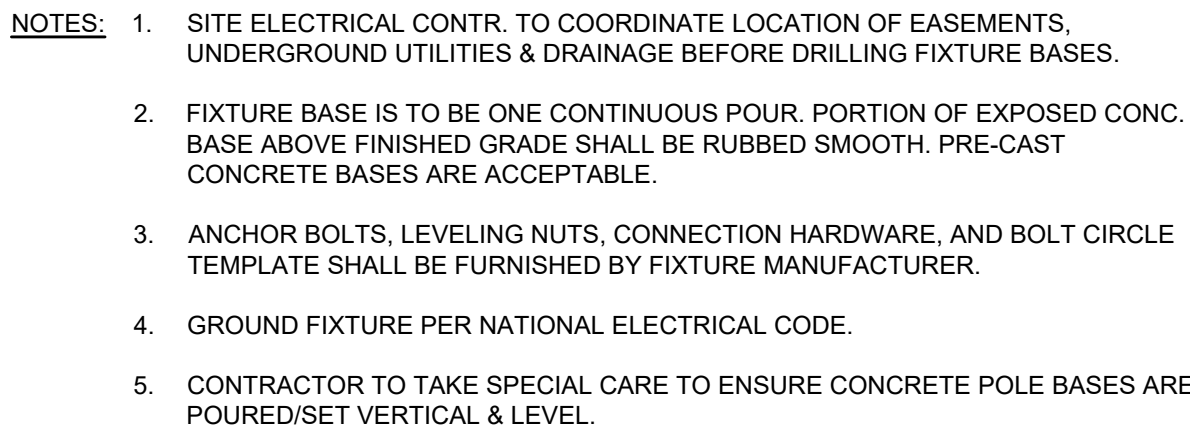
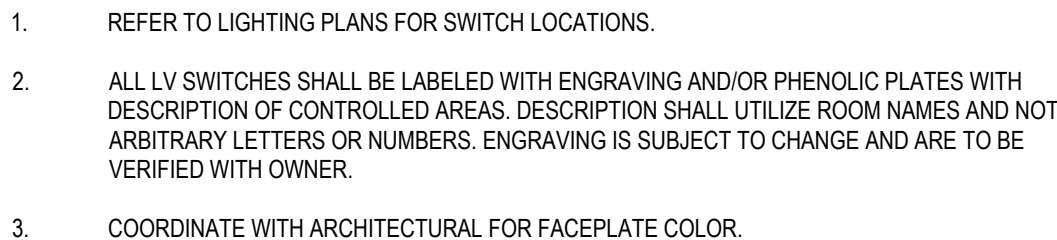
- PLUG LOAD CONTROL POWER PACK OR APPROVED EQUAL. REFER TO TYPICAL PLUG LOAD CONTROLLER WIRING DIAGRAM AND PLUG LOAD CONTROL DEVICE DETAIL 4 ON SHEET E5.2. PROVIDE ONE PER ELECTRICAL CIRCUIT. REFER TO POWER PLANS FOR QUANTITY OF CIRCUITS.



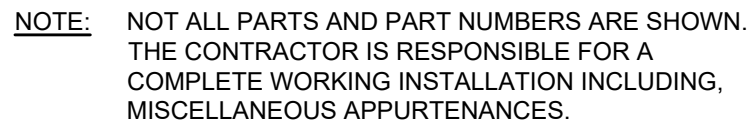
P#:	OF	REVISION NO.:
FILE NAME:		

DATE: Jun 28, 2019 - 7:37am by: qiffin

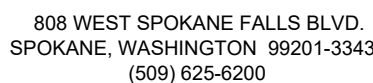
FILE NAME:



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SHEET TITLE:	ELECTRICAL DETAILS 7.3.2019
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DATE: Jun 28, 2019 - 7:37am by: giffin



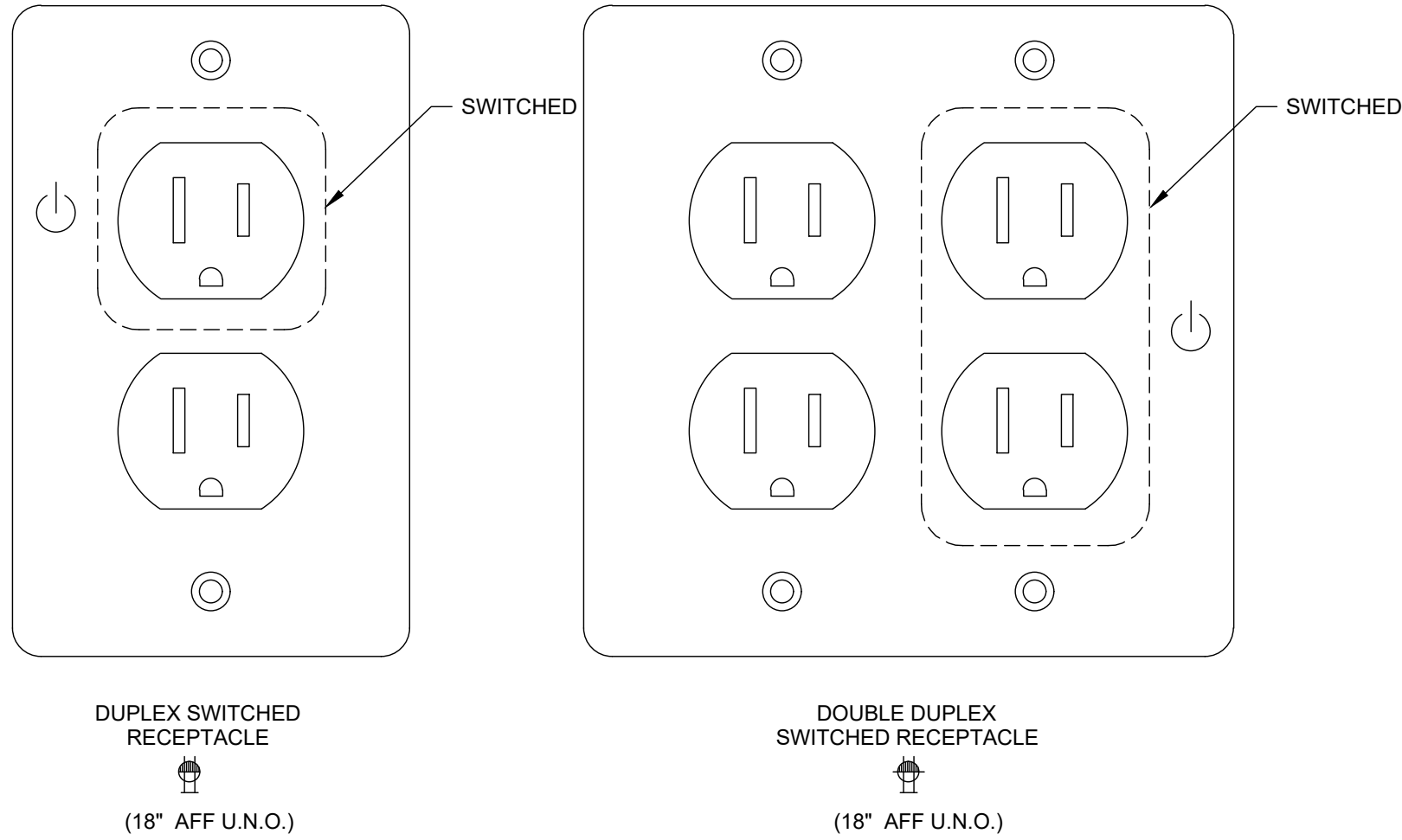
DIGITALLY SIGNED.

TYPE OF IMPROVEMENT: PARK

CITY PURCHASING NUMBER DRAWING NUMBER

E4.1

P#:	OF	REVISION NO.:
FILE NAME:		



DETAIL NOTE:
WIRE SWITCHED CIRCUITS IN EACH ROOM THRU AUXILLIARY CONTACTS ON OCCUPANCY SENSOR.


1 | SWITCHED RECEPTACLE DETAIL

SCALE: NOT TO SCALE




DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT: PARK	
CITY PURCHASING NUMBER	DRAWING NUMBER
	E4.2
PR: OF	REVISION NO.:

BY	REVISIONS	DATE

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LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION			
ELEVATION	SEE SHEET V1.0	HORIZONTAL	1"=20'
CBM NO.	N/A NAVD 88	VERTICAL	1"=10'
CITY DATUM	SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

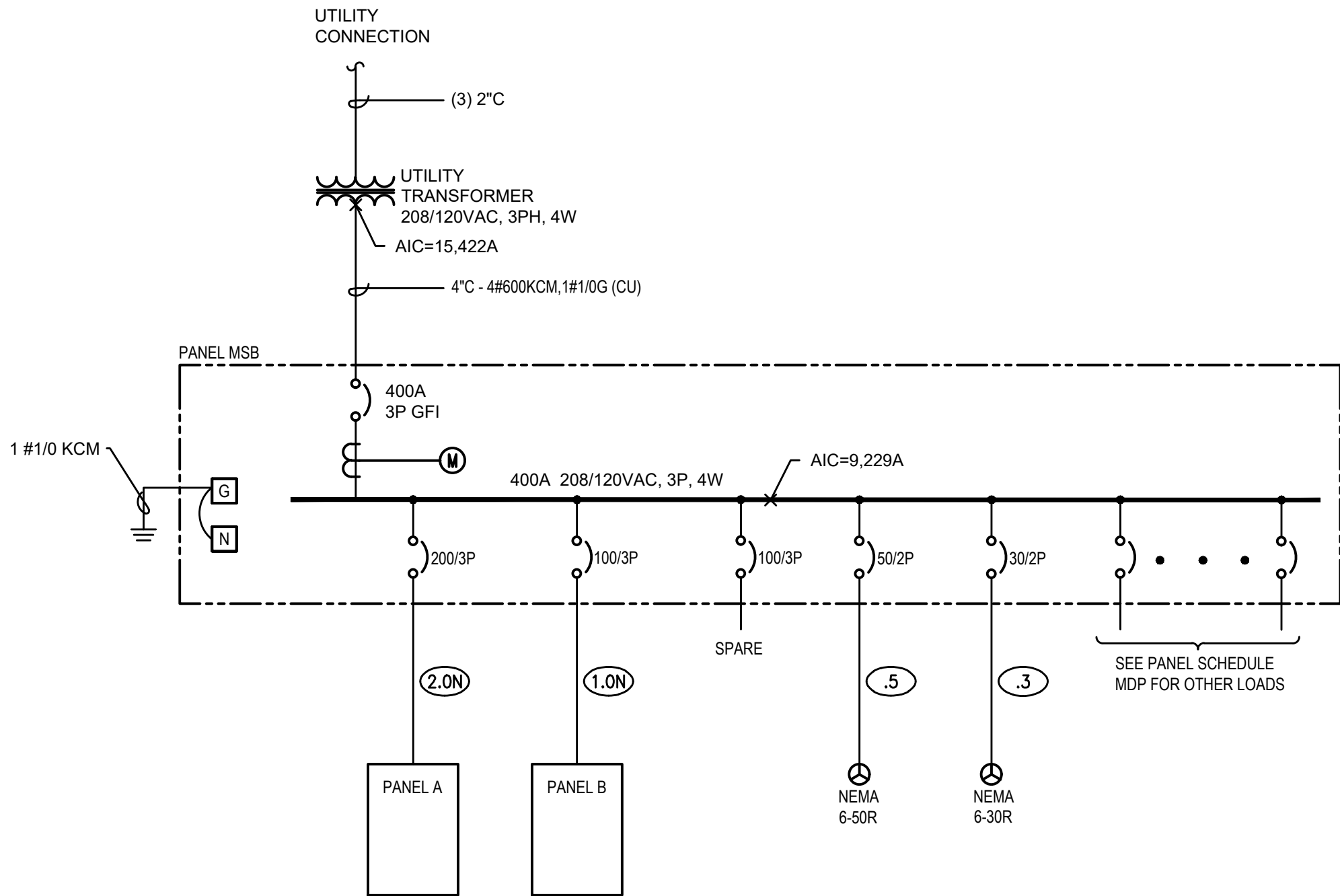


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PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	ELECTRICAL DETAILS 7.3.2019

DATE: Jun 28, 2019 - 7:37am by: giffin

FILE NAME:



ALUMINUM FEEDER SCHEDULE

AMPACITY (AMPS)	SYMBOL ID.	WIRE (3-PHASE) WITH NEUTRAL	CONDUIT	SYMBOL ID.	WIRE (3-PHASE) WITHOUT NEUTRAL	CONDUIT
100	1.0N	4#1/0, 1#6G	(1) 1 1/2"	1.0	3#1/0, 1#6G	(1) 1 1/2"
125	1.25N	4#2/0, 1#4G	(1) 2"	1.25	3#2/0, 1#4G	(1) 2"
150	1.5N	4#3/0, 1#4G	(1) 2 1/2"	1.5	3#3/0, 1#4G	(1) 2 1/2"
175	1.75N	4#4/0, 1#4G	(1) 2 1/2"	1.75	3#4/0, 1#4G	(1) 2 1/2"
200	2.0N	4#250KCM, 1#4G	(1) 3"	2.0	3#250KCM, 1#4G	(1) 3"
225	2.25N	4#300KCM, 1#2G	(1) 3"	2.25	3#300KCM, 1#2G	(1) 3"
250	2.5N	4#350KCM, 1#2G	(1) 3"	2.5	3#350KCM, 1#2G	(1) 3"
300	3.0N	4#500KCM, 1#2G	(1) 3 1/2"	3.0	3#500KCM, 1#2G	(1) 3 1/2"
350	3.5N	2 SETS 4#4/0, 1#1G	(2) 2 1/2"	3.5	2 SETS 3#4/0, 1#1G	(2) 2 1/2"
400	4.0N	2 SETS 4#250KCM, 1#1G	(2) 3"	4.0	2 SETS 3#250KCM, 1#1G	(2) 3"
450	4.5N	2 SETS 4#300KCM, 1#1/0G	(2) 3"	4.5	2 SETS 3#300KCM, 1#1/0G	(2) 3"
500	5.0N	2 SETS 4#350KCM, 1#1/0G	(2) 3"	5.0	2 SETS 3#350KCM, 1#1/0G	(2) 3"
600	6.0N	2 SETS 4#500KCM, 1#2/0G	(2) 3 1/2"	6.0	2 SETS 3#500KCM, 1#2/0G	(2) 3"
700	7.0N	3 SETS 4#350KCM, 1#3/0G	(3) 3"	7.0	3 SETS 3#350KCM, 1#3/0G	(3) 3"
800	8.0N	3 SETS 4#400KCM, 1#3/0G	(3) 3 1/2"	8.0	3 SETS 3#400KCM, 1#3/0G	(3) 3"
1000	10N	4 SETS 4#350KCM, 1#4/0	(4) 3"	10	4 SETS 3#350KCM, 1#4/0G	(4) 3"
1200	12N	5 SETS 4#350KCM, 1#250KCM G	(5) 3"	12	5 SETS 3#350KCM, 1#250KCM G	(5) 3"
1600	16N	6 SETS 4#400KCM, 1#350KCM G	(6) 3 1/2"	16	6 SETS 3#400KCM, 1#350KCM G	(6) 3"
2000	20N	7 SETS 4#500KCM, 1#400KCM G	(7) 3 1/2"	20	7 SETS 3#500KCM, 1#400KCM G	(7) 3"
2500	25N	8 SETS 4#500KCM, 1#600KCM G	(8) 3 1/2"	25	8 SETS 3#500KCM, 1#600KCM G	(8) 3 1/2"
3000	30N	9 SETS 4#600KCM, 1#600KCM G	(9) 4"	30	9 SETS 3#600KCM, 1#600KCM G	(9) 4"
SPECIAL				Notes: Based on Aluminum conductors with XHHW insulation. Reference 2017 NEC tables 310.15(B)(16) and 250.122.		
AMPACITY (AMPS)	SYMBOL ID.	WIRE (1-Phase) WITH NEUTRAL	CONDUIT	*Equipment bonding jumper sized per NEC 250.102		
800	8.0A	3 SETS 3#400KCM, 1#3/0G*	(2) 4"			

COPPER FEEDER SCHEDULE

AMPACITY (AMPS)	SYMBOL ID.	WIRE (3-PHASE) WITH NEUTRAL	CONDUIT	SYMBOL ID.	WIRE (3-PHASE) WITHOUT NEUTRAL	CONDUIT
20	0.2N	4#12, 1#12G	(1) 3/4"	0.2	3#12, 1#12G	(1) 3/4"
30	0.3N	4#10, 1#10G	(1) 3/4"	0.3	3#10, 1#10G	(1) 3/4"
40	0.4N	4#8, 1#10G	(1) 1"	0.4	3#8, 1#10G	(1) 1"
50	0.5N	4#6, 1#10G	(1) 1"	0.5	3#6, 1#10G	(1) 1"
60	0.6N	4#4, 1#10G	(1) 1 1/2"	0.6	3#4, 1#10G	(1) 1"
70	0.7N	4#4, 1#8G	(1) 1 1/2"	0.7	3#4, 1#8G	(1) 1"
80	0.8N	4#3, 1#8G	(1) 1 1/2"	0.8	3#3, 1#8G	(1) 1 1/2"
90	0.9N	4#2, #8G	(1) 1 1/2"	0.9	3#2, #8G	(1) 1 1/2"
100	1.0N	4#1, 1#8G	(1) 1 1/2"	1.0	3#1, 1#8G	(1) 1 1/2"
125	1.25N	4#1, 1#6G	(1) 1 1/2"	1.25	3#1, 1#6G	(1) 1 1/2"
150	1.5N	4#1/0, 1#6G	(1) 2"	1.5	3#1/0, 1#6G	(1) 1 1/2"
175	1.75N	4#2/0, 1#6G	(1) 2"	1.75	3#2/0, 1#6G	(1) 1 1/2"
200	2.0N	4#3/0, 1#6G	(1) 2"	2.0	3#3/0, 1#6G	(1) 2"
225	2.25N	4#4/0, 1#4G	(1) 2 1/2"	2.25	3#4/0, 1#4G	(1) 2"
250	2.5N	4#250KCM, 1#4G	(1) 2 1/2"	2.5	3#250KCM, 1#4G	(1) 2 1/2"
300	3.0N	4#350KCM, 1#4G	(1) 3"	3.0	3#350KCM, 1#4G	(1) 2 1/2"
350	3.5N	4#500KCM, 1#3G	(1) 3 1/2"	3.5	3#500KCM, 1#3G	(1) 3"
400	4.0N	4#600KCM, 1#3G	(1) 4"	4.0	3#600KCM, 1#3G	(1) 4"
450	4.5N	2 SETS 4#4/0, 1#2G	(2) 2 1/2"	4.5	2 SETS 3#4/0, 1#2G	(2) 2"
500	5.0N	2 SETS 4#250KCM, 1#2G	(2) 3"	5.0	2 SETS 3#250KCM, 1#2G	(2) 2 1/2"
600	6.0N	2 SETS 4#350KCM, 1#1G	(2) 3"	6.0	2 SETS 3#350KCM, 1#1G	(2) 2 1/2"
700	7.0N	2 SETS 4#500KCM, 1#1/0G	(2) 3 1/2"	7.0	2 SETS 3#500KCM, 1#1/0G	(2) 3"
800	8.0N	2 SETS 4#600KCM, 1#1/0G	(2) 4"	8.0	2 SETS 3#600KCM, 1#1/0G	(2) 4"
1000	10N	3 SETS 4#400KCM, 1#2/0G	(3) 3"	10	3 SETS 3#400KCM, 1#2/0G	(3) 3"
1200	12N	4 SETS 4#350KCM, 1#3/0G	(4) 3 1/2"	12	4 SETS 3#350KCM, 1#3/0G	(4) 2 1/2"
1600	16N	4 SETS 4#600KCM, 1#4/0G	(4) 4"	16	4 SETS 3#600KCM, 1#4/0G	(4) 4"
2000	20N	5 SETS 4#600KCM, 1#250KCM G	(5) 4"	20	5 SETS 3#600KCM, 1#250KCM G	(5) 4"
SPECIAL				Notes: Based on Copper conductors with XHHW (#8 & Larger) or THHN (#10 & #12) insulation. Reference 2017 NEC tables 310.15(B)(16) and 250.122.		
AMPACITY (AMPS)	SYMBOL ID.	WIRE (1-Phase) WITH NEUTRAL	CONDUIT	*Equipment bonding jumper sized per NEC 250.102		
800	8.0A	3 SETS 3#400KCM, 1#3/0G*	(2) 4"			



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: PARK

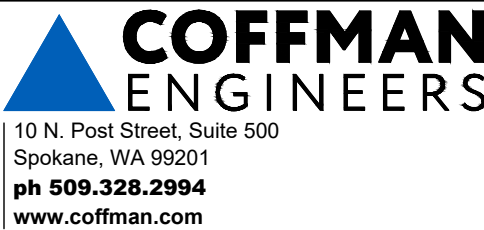
CITY PURCHASING NUMBER

DRAWING NUMBER

E5.1

FILE NAME:

DATE: Jun 28, 2019 - 7:37am by: giffin



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION SEE SHEET V1.0

CBM NO. N/A

NAVIG 88

CITY DATUM

HORIZONTAL

VERTICAL

SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95

DESIGNED ZLY

CHECKED

APPROVED



CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: ONE-LINE DIAGRAM
7.3.2019

LUMINAIRE SCHEDULE												
Date: 6/28/2019												
TYPE	MANUFACTURER	CATALOG NUMBER	MAX WATTS	SOURCE/ MIN LUMENS	MIN LPW	TEMPERATURE/ CRI	DRIVER	VOLT	MOUNTING	FINISH	LOCATION	DESCRIPTION
HAI	HUBBELL LITHONIA EATON	MPS4-40HL-CW-EDU	50	LED 5831 LUMENS		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING/ SUSPENDED/ SURFACE	*	BLDG	4' SUSPENDED LED STRIP LUMINAIRE WITH DROP LENSE FOR UP LIGHT COMPACT, LOW PROFILE LED STRIP LIGHT. * PROVIDE HANGER CHAINS.
HAI-E	HUBBELL LITHONIA EATON	MPS4-40HL-CW-EDU-ELL14	50	LED 5831 LUMENS		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING/ SUSPENDED/ SURFACE	*	BLDG	4' SUSPENDED LED STRIP LUMINAIRE WITH DROP LENSE FOR UP LIGHT SAME AS HAI, EXCEPT FOR BATTERY BACKUP * PROVIDE HANGER CHAINS.
HAE	VERBATIM LITHONIA EATON	MPS8-40HL-CW-EDU	99	LED 11667 LUMENS		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING/ SUSPENDED/ SURFACE	*	BLDG	8' SUSPENDED LED STRIP LUMINAIRE WITH DROP LENSE FOR UP LIGHT COMPACT, LOW PROFILE LED STRIP LIGHT. * PROVIDE HANGER CHAINS.
HAE-E	HUBBELL LITHONIA EATON	MPS8-40HL-CW-EDU-ELL14	99	LED 11667 LUMENS		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING/ SUSPENDED/ SURFACE	*	BLDG	8' SUSPENDED LED STRIP LUMINAIRE WITH DROP LENSE FOR UP LIGHT SAME AS HAE, EXCEPT FOR BATTERY BACKUP * PROVIDE HANGER CHAINS.
PA1	LUMCA	RL-36LED 05 60W-30K-L4-PER-BK	60	LED 7278 LUMENS		3000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION IP66 RATED, DARK SKY COMPLIANT. PROVIDE WISCAPE WIRELESS MODULE FOR 7-PIN RECEPTACLE (P/N: WIP-RME-L).
PA2	LUMCA	RL-36LED 05 60W-30K-L4-PER-BK	60	LED 7322 LUMENS		3000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 3 DISTRIBUTION IP66 RATED, DARK SKY COMPLIANT. PROVIDE WISCAPE WIRELESS MODULE FOR 7-PIN RECEPTACLE (P/N: WIP-RME-L).
PA3	LUMCA	RL-36LED 05 60W-30K-L4-ISS-PER-BK	60	LED 7278 LUMENS		3000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	BLACK	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION SAME AS PA1, EXCEPT WITH HOUSESIDE SHIELD
PA1	LIGMAN	UTA-31861 28 LED W30 F	28	LED 2706 LUMENS		3000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	*	SITE	0.5' DIAMETER LED CYLINDER MOUNTED TO POST/BRACKET PROVIDE WISCAPE WIRELESS MODULE (P/N: WIP-RMH-Q-N4). FROSTED LENS. RIVERFRONT PARK MASTER CUT SHEET TYPE Z3, MOD FOR POLE MOUNTING. BERGER TO PROVIDE RAL NUMBER FOR MATCHING.
PC1	LUMCA	CITY STANDARD P1C LUMINAIRE (P/N: CPL-6104)	30	LED LUMENS TBD		4000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	*	SITE	CITY STANDARD P1C LUMINAIRE WITH TYPE 2 DISTRIBUTION REFER TO CITY STANDARD PLAN J-204 FOR FIXTURE TYPE P1C DETAILS. REFER TO J-208 FOR POLE DETAILS AND J-210 FOR POLE LOCATIONS. STREET SIDE DROP ACORN FIXTURE ON DECORTIVE ARM, BANNER ARMS.
PC2	LUMCA	CITY STANDARD S2C LUMINAIRE (P/N: COS STANDARD STREET LIGHTING FIXTURE AND CPL-6104)	100	LED LUMENS TBD		4000K 80 CRI MIN	LED DRIVER WISCAPE WIRELESS	UNV 120-277	POLE/ SURFACE	*	SITE	CITY STANDARD P1C LUMINAIRE REFER TO CITY STANDARD PLAN J-207 FOR FIXTURE TYPE S2C DETAILS. REFER TO J-208 FOR POLE DETAILS AND J-210 FOR POLE LOCATIONS. STREET SIDE AREA HEAD AND SIDEWALK DROP ACORN FIXTURE ON DECORTIVE ARM.
PD1	HUBBELL	RFL4 176L-120-3K7-M-UNV-K-C-CD-7PR/ RFL4-TV*	124	LED MODULE 14360 LUMEN	116	3000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	*	SITE/ ALT #2	MEDIUM LED FLOOD LUMINAIRE WITH TOP VISOR KNUCKLE ARM MOUNT, 180" IN 4" INCREMENTS. IP66 RATED, 10KA SURGE PROTECTOR. PROVIDE WISCAPE WIRELESS MODULE FOR 7-PIN RECEPTACLE (P/N: WIP-RME-L). * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
PA1	HUBBELL LITHONIA MCGRAW-EDISON	ALT3-168L-385-3K7-4-UNV-A46-*7PR-WIP-RME-L	387	LED MODULE 48277 LUMEN	125	3000K 70 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	POLE SURFACE	*	SITE/ ALT #8a	HIGH OUTPUT POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION IP66 RATED, 100SDARK SKY COMPLIANT. PROVIDE WISCAPE WIRELESS MODULE FOR 7-PIN RECEPTACLE (P/N: WIP-RME-L).
P1	KW INDUSTRIES/ LUMCA	RSP22-4.5-11-C-DM10-BG-SF35HV PM2-CF21*	-	-	-	-	-	-	POLE-BASE	*	SITE	22" TALL 4.5" DIA ROUND STRAIGHT STEEL POLE WITH BASE COVER PROVIDE SINGLE UNIT DRILL PATTERN, SEMI-FLUSH HANDHOLE PROVIDE SIDE MOUNT ARM TO ATTACH LUMINAIRE TO POLE.
P2	KW INDUSTRIES/ LUMCA	RSP22-4.5-11-C-DM2090-BG-SF35HV PM2-CF21*	-	-	-	-	-	-	POLE-BASE	*	SITE	22" TALL 4.5" DIA ROUND STRAIGHT STEEL POLE WITH BASE COVER PROVIDE (2) UNIT DRILL PATTERNS AT 180". SEMI-FLUSH HANDHOLE PROVIDE (2) SIDE MOUNT ARMS TO ATTACH LUMINAIRES TO POLE.
P3	LIGMAN	RIVERFRONT PARK STANDARD Z3	-	-	-	-	-	-	POLE-BASE	*	SITE	12" TALL 4" DIA ROUND STRAIGHT ALUMINUM POLE PROVIDE WISCAPE WIRELESS MODULE (P/N: WIP-RMH-Q-N4). RIVERFRONT PARK MASTER CUT SHEET TYPE Z7, MOD FOR POLE MOUNTING.
PA	LUMCA	CITY STANDARD P1C POLE	-	-	-	-	-	-	POLE-BASE	*	SITE	18" TALL 6" DIA STRAIGHT FLUTED ALUMINUM CITY STANDARD P1C POLE REFER TO CITY STANDARD PLAN J-204 FOR FIXTURE TYPE P1C DETAILS. REFER TO J-208 FOR POLE DETAILS AND J-210 FOR POLE LOCATIONS. STREET SIDE DROP ACORN FIXTURE ON DECORTIVE ARM, BANNER ARMS. 14" DIA, HAPCO CLAM SHELL BASE, (2) 24" FLOWER ARMS, 15 AMP GFCI RCPT, AT 12'
PA	LUMCA	CITY STANDARD S2C POLE	-	-	-	-	-	-	POLE-BASE	*	SITE	26" TALL 6" DIA STRAIGHT FLUTED ALUMINUM CITY STANDARD S2C POLE REFER TO CITY STANDARD PLAN J-207 FOR FIXTURE TYPE S2C DETAILS. REFER TO J-208 FOR POLE DETAILS AND J-210 FOR POLE LOCATIONS. STREET SIDE AREA HEAD AND SIDEWALK DROP ACORN FIXTURE ON DECORTIVE ARM. 14" DIA, HAPCO CLAM SHELL BASE, (2) 24" FLOWER ARMS, 15 AMP GFCI RCPT, AT 12'
PA	HUBBELL	RSS-H-25-50-B-2L-S2*-RBC	-	-	-	-	-	-	POLE-BASE	*	SITE ALT#2	26" TALL 6" DIA ROUND STRAIGHT STEEL POLE PROVIDE (2) UNIT DRILL PATTERNS AT 90".
P7	HUBBELL	RSS-H-25-50-B-1-S2*-GFRBC	-	-	-	-	-	-	POLE-BASE	*	SITE ALT#6a	26" TALL 6" DIA ROUND STRAIGHT STEEL POLE PROVIDE SINGLE UNIT DRILL PATTERN.
BA1	NEW STAR	37M14-AA-12401-A0-12-DB	50	LED MODULE 5550 LUMEN	110	4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	120V	CEILING RECESSED	WHITE	BLDG/ RR	1X RECESSED HIGH ABUSE LED LUMINAIRE TAMPER RESISTANT SCREWS, POLYCARBONATE LENS, 12 GAUGE STEEL HOUSING AND FRAME.
BA2	HUBBELL LITHONIA	LJT14-40HLG-FA-A12-EDU-FK14	46	LED MODULE 4834 LUMEN		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING RECESSED	WHITE	BLDG/ RR ALT #3	1X RECESSED LED LUMINAIRE ANGLED STYLE AND DIFFUSE OPTICS. INCLUDES SINGLE FLANGE KIT * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR. ** CEILING TYPE VARIES REFER TO ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
BA1	LITE CONTROL MARK	50L-X-D-24-SOF-CX-40K-D60	59	LED MODULE 6000 LUMEN		4000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING RECESSED	WHITE	BLDG/ OFFICE ALT #3	2X RECESSED LED LUMINAIRE ANGLED STYLE AND DIFFUSE OPTICS. * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR. ** CEILING TYPE VARIES REFER TO ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
BC1	MP LIGHTING	L08-2V93SDCDD-S* MK	3	LED MODULE 2 LUMEN	1	3000K 80 CRI MIN	LED DRIVER	6- 32VDC	GROUND/ VERTICAL RECESSED	*	SITE/ PAVILLION	2.5" DIA VERTICALLY CAST-IN-PLACE SHIELDED LED LUMINAIRE IP 66 RATED, POLYCARBONATE LENS, CAST-IN-PLACE ENCLOSURE PROVIDED (MK). PROVIDE WISCAPE WIRELESS MODULE (P/N: WIP-RMH-Q-N4). * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
SA1	WE-EF BEGA	630-1320	28	LED MODULE 2297 LUMEN	83	3000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING SURFACE	*	BLDG/ CANOPY	15" DIA ROUND RECESSED LED LUMINAIRE IP66 RATED, 1007 SAFETY GLASS LENS, 700mA, WIDE BEAM DISTRIBUTION. MOUNTS OVER RECESSED J-BOX, PROVIDED BY OTHERS. * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
S.B1	HUBBELL	ORB-18LED-60-3K7-T50N-UNV-MC0B (33%) *	61	LED MODULE 6488 LUMEN		3000K 70 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING SURFACE	*	BLDG/ CANOPY ALT #5	11.25" DIA LED CANOPY MOUNTED LUMINAIRE ANGLED STYLE AND DIFFUSE OPTICS. * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
SG1	ERCO	35081.023	8	LED MODULE 460 LUMEN	56	3000K 92 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	GROUND RECESSED	*	SITE/ VARIES	7.5" DIA ROUND ADJUSTABLE IN-GRADE LED LUMINAIRE IP 66 RATED, SAFETY GLASS LENS, 20KN DRIVE OVER RATED, FLOOD DISTRIBUTION. ADJUSTABLE AFTER INSTALL, 0-30° TILT, 360° ROTATION.
SD1	VIVID LEDS	VVDAFC3100-3K-T5-V27*-DM-TR	114	LED MODULE 14851 LUMEN	130	3000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	CEILING SUSPENDED	*	SITE/ PAVILLION	18" DIA ARCHITECTURAL LED SUSPENDED LUMINAIRE IP 66 RATED, POLYCARBONATE LENS, ADJUSTABLE TRUNNION MOUNTED. PROVIDE WISCAPE WIRELESS MODULE (P/N: WIP-RMH-Q-N4). * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
WA1	HUBBELL	TRP1-12L-30-3K7-2-4J*-PCU/ BB-GE0*	28	LED MODULE 2685 LUMEN	95	3000K 70 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	WALL SURFACE	*	BLDG/ EXTERIOR	13" WIDE x 6.5" TALL LED WALL MOUNTED HIGH OUTPUT LUMINAIRE BACKBOX WITH (4) 1/2" KNOCKOUTS, IP65 RATED, TYPE 3 DISTRIBUTION, INTEGRAL PHOTOCCELL. * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
WA-E	HUBBELL	TRP1-12L-15-3K7-2-4J*-PCU-EH	14	LED MODULE 1497 LUMEN	108	3000K 70 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	WALL SURFACE	*	BLDG/ EXTERIOR	13" WIDE x 6.5" TALL LED WALL MOUNTED DEGRESS LUMINAIRE BACKBOX WITH (4) 1/2" KNOCKOUTS, IP65 RATED, TYPE 2 DISTRIBUTION, INTEGRAL PHOTOCCELL. EMERGENCY BATTERY BACKUP WITH HEATER. * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
WA1	HUBBELL	RFL4 176L-120-3K7-M-UNV-K-C-CD-7PR/ RFL4-TV*	124	LED MODULE 14360 LUMEN	116	3000K 80 CRI MIN	LED DRIVER 0-10V DIMMING	UNV 120-277	WALL SURFACE	*	BLDG/ EXTERIOR	MEDIUM LED FLOOD LUMINAIRE WITH TOP VISOR KNUCKLE ARM MOUNT, 180" IN 4" INCREMENTS. IP66 RATED, 10KA SURGE PROTECTOR. PROVIDE WISCAPE WIRELESS MODULE FOR 7-PIN RECEPTACLE (P/N: WIP-RME-L). * COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
WC1	BEGA	22 109 BLK	3	LED MODULE 21 LUMEN	7	3000K 80 CRI MIN	LED DRIVER	24VDC	WALL SURFACE	BLACK	SITE/ STEPS	3.18" DIA ROUND STEP LIGHT WITH WHITE CERAMIC COATING ON TEMPERED GLASS LENS IP65 RATED, MAX. (4) #12 AWG, (2) 1/2" KNOCKOUTS, REMOTE DRIVER, ADA COMPLIANT. PROVIDE WISCAPE WIRELESS MODULE (P/N: WIP-RMH-Q-N4). RIVERFRONT PARK MASTER CUT SHEET TYPE Z7, MOD FOR POLE MOUNTING.

BY	REVISIONS	DATE

**COFFMAN
ENGINEERS**

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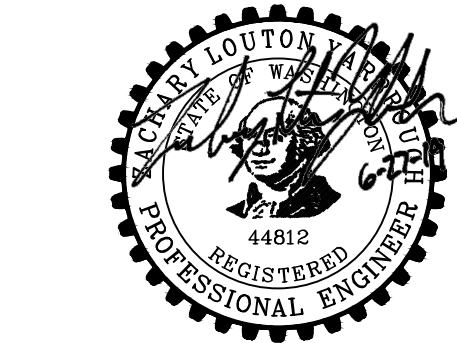
LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION		
ELEVATION SEE SHEET V1.0	HORIZONTAL 1"=20'	BAR IS ONE INCH ON ORIGINAL DRAWING. 0"=1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
CBM NO. N/A NAVD 88	VERTICAL 1"=10'	
CITY DATUM	SCALE	

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95		
7.3.2019	DRAWN	BEG
7.3.2019	DESIGNED	ZLY
	CHECKED	
	APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	ELECTRICAL SCHEDULES 7.3.2019



DIGITALLY SIGNED:

TYPE OF IMPROVEMENT:	PARK
CITY PURCHASING NUMBER	DRAWING NUMBER
	E6.1
PK: OF	REVISION NO.:

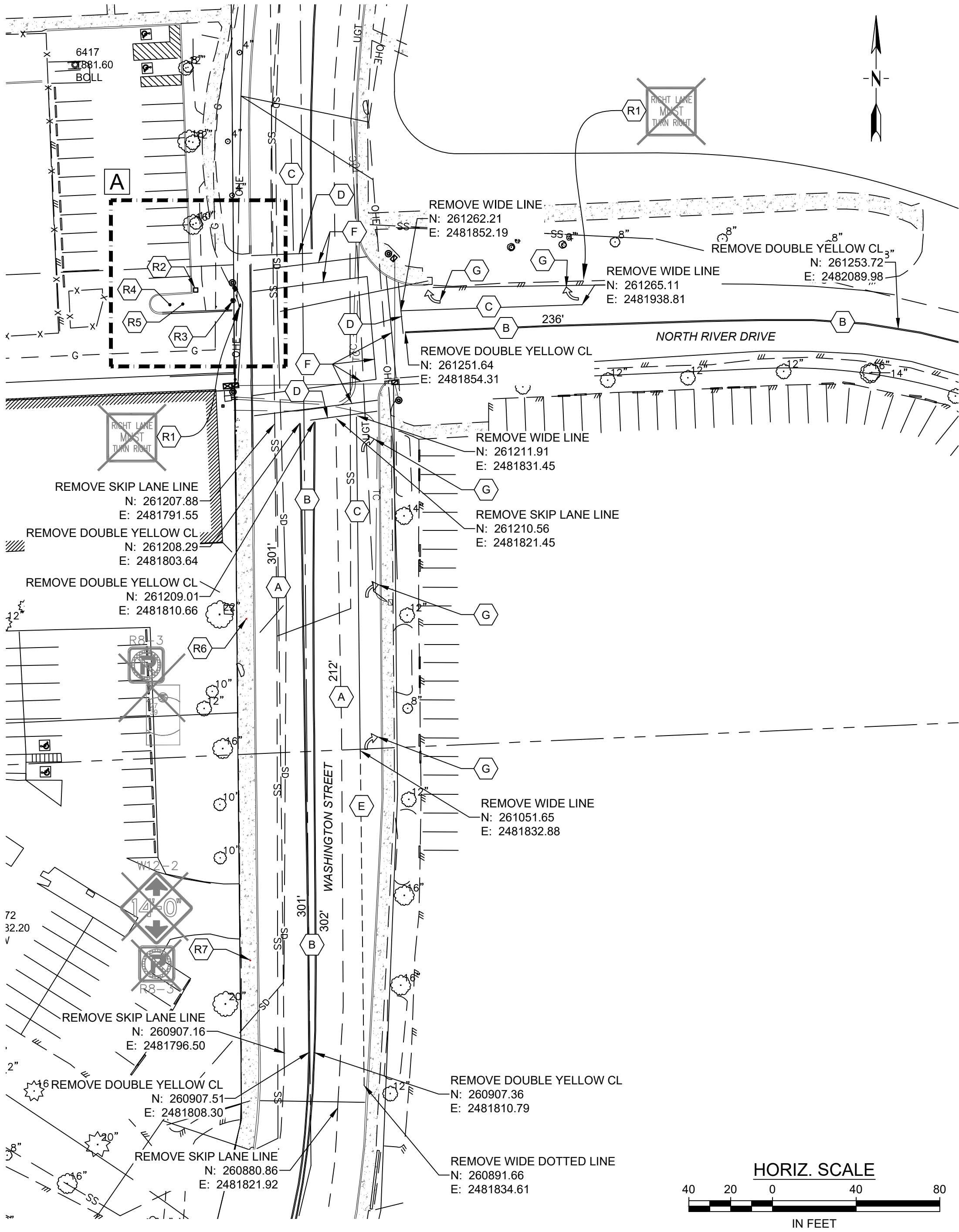
DATE: Jun 28, 2019 - 12:18pm by: giffin

FILE NAME:

PROJECT:		NORTH BANK PLAYGROUND							PANEL: S (E)		
Location:		Feeds Thru to:							Date: 6/28/2019		
Qty	Description	Phase	Amp	Poles	Notes	Oil Totals	Specifications				
1	SPARE	A	250	3	2		Voltage (L-L):	208			
3		B	-	-			Phase/Wire:	3PH / 4W			
5		C	-	-			Bus Current Rating (Amps):	400			
7	SPARE	A	100	2	2		Bus Material:	Cu/Al			
9		B	-	-			Short Circuit Current Rating (Amps)	19KA			
11	SPARE	C	100	2	2		Main Type:	BRKR			
13		A	-	-			Main Rating:	400			
15	SPARE	B	100	2	2		Neutral Type:	FULL			
17		C	-	-			Mounting/End:	SURFACE	NEMA1		
19	SPARE	A	100	2	2		2017 NEC Sections Used in Demand Calculations				
21		B	-	-			Factor #	NEC Reference	Notes		
23	LTG - BASKETBALL ALT #1a	C	20	1	2	1.20	1	TBL 220.44 Receptacles ND	1st 10k @100% Remainder @50%		
25	LTG - SKATEPARK ALT#2	A	30	1	2	1.20					
27	LTG - STEP LIGHTS	B	20	1	2	0.05	2	TBL 220.42 Apartments General Lighting	1st 20k @50% 20-10k @30% >100k @30%		
29	LTG - PAVILLION	C	20	1	2	0.10					
31	LTG - MAMMOTH ALT #3	A	20	1	2	0.05					
33	LTG - MAMMOTH SCULPTURE	B	20	1	2	0.05	3	430.24 Motors	Largest @125% Remainder @100%		
35	SPARE	C	20	1	2						
37	SPARE	A	20	1	2		4	210.19(A)1 Cont Loads	125%		
39	SPARE	B	20	1	2		5	Non-Cont Loads	100%		
41	North Bank Pole Lights E	C	20	1	2		6	220.51 Heating	100%		
							Feeder Load Breakdown		Conn(KVA)	Dnd Fnd	
2	SPLASH PAD	A	150	3	2	12.85	Non-Dwelling Receptacles		2.16	0.50	
4	-	B	-	-		12.85	Dwelling General Illumination		0.00	0.00	
6	-	C	-	-		12.85	Non-Continuous Lighting		0.00	1.00	
8	PUMP HOUSE LTG & REC	A	20	1	2	0.58	Continuous Lighting		4.79	1.25	
10	DS1 - PUMP HOUSE	B	30	2	1	1.49	Exterior Lighting		0.50	1.25	
12	-	C	-	-		1.49	Kitchen Appliances		0.00	1.00	
14	SPARE	A	100	2	2		Largest Motor (per phase)		12.85	0.25	
16		B	-	-			Fixed Heating		0.00	1.00	
18	SPARE	C	100	2	2		Fixed Cooling		0.00	1.00	
20		A	-	-			Non-Diversity Loads		0.00	1.00	
22	LTG - PLAY STRUCTURE	B	20	1	2	0.20	Other		0.00	1.00	
24	SPARE	C	30	1	2						
26	REC - LARGE GAZZBO	A	20	1	2	0.72					
28	REC - LARGE GAZZBO	B	20	1	2	0.72					
30	LTG - LARGE GAZZBO	C	20	1	2	0.10					
32	REC - SMALL GAZZBO	A	20	1	2	0.54					
34	LTG - WALKWAY	B	20	1	2	0.48					
36	LTG - PARKING	C	20	1	2	0.48	PHASE A:		16.42	136.73	
38	LTG - PARKING	A	20	1	2	0.48	PHASE B:		16.34	136.07	
40	GATEWAY	B	20	1	2	0.50	PHASE C:		16.22	135.07	
42		C	-	-			TOTAL:		49.98	139.95	
Notes:											
1) PROVIDE A NEW 30A/2P CIRCUIT BREAKER. REMOVE 100A/2P CIRCUIT BREAKER											
2) EXISTING CIRCUIT BREAKER											
Panel Loading: ACCEPTABLE											

PROJECT: NORTH BANK PLAYGROUND								PANEL: MDP			
Location:								Date: 6/28/2019			
Cat	Description	Phase	Amp	Poles	Notes	Oil Totals	Specifications				
1	PANEL A	A	200	3		8.82	Voltage (L-L):		208		
3		B	-	-		7.60	Phase/Wire:		3PH / 4W		
5		C	-	-		5.24	Bus Current Rating (Amps):		400		
7	SPARE	A	100	3			Bus Material:		Cu/Al		
9		B	-	-			Short Circuit Current Rating (Amps)		22KA		
11		C	-	-			Main Type:		BRKR		
13	PANEL B	A	100	3		7.10	Main Rating:		400		
15	(ALTERNATE #7)	B	-	-		6.42	Neutral Type:		FULL		
17		C	-	-		4.92	Mounting/End:		SURFACE	NEMA1	
19	GUH-1,2,3	A	20	1		1.20	2017 NEC Sections Used in Demand Calculations				
21	EF-3	B	25	1		1.92	Factor #	1	NEC Reference	Notes	
23	RM 101 - OVERHEAD DOOR	C	20	1		1.20	1	TBL 220.44 Receptacles ND	1st 10k @100%, Remainder @50%		
25	RM 101 - OVERHEAD DOOR	A	20	1		1.20	2	TBL 220.42 Apartments General Lighting	1st 20k@100%, 20-10k @60%, >>100k @30%		
27	FACP	B	20	1		1.00	3	430.24	Largest @125%, Remainder @100%		
29	LTG EXTERIOR PARKING ALT #4	C	20	1		0.25					
31	LTG - RM 101	A	20	1		1.20					
33	LTG - RM 101 MEZZ	B	20	1		1.20	3	210.19(A)1 Motors			
35	LTG - EXTERIOR	C	20	1		0.80					
37	LTG RM 101	A	20	1		1.20	4	210.19(A)1 Cont Loads	125%		
39	LTG - GATEWAY	B	20	1		0.10	5	Non-Cont Loads	100%		
41	SPARE	C	20	1			6	220.51 Heating	100%		
Feeder Load Breakdown								Conc/Volt		Dmct Fct	
2	WASHER	A	20	1		1.20	Non-Dwelling Receptacles	24.56	0.48		
4	DRYER	B	30	2		2.16	Dwelling General Illumination	0.00	0.00		
6		C	-	-		2.16	Non-Continuous Lighting	0.00	1.00		
8	GENERAL REC	A	50	2		4.16	Continuous Lighting	5.40	1.25		
10	(NEMA 6-50R)	B	-	-		4.16	Exterior Lighting	0.25	1.25		
12	GENERAL REC	C	30	2		2.16	Kitchen Appliances	4.30	1.00		
14	(NEMA 6-30R)	A	-	-		2.16	Motors	16.34	1.00		
16	REC - RM 101	B	20	1		0.72	Largest Motor (per phase)	2.90	0.25		
18	REC - RM 101	C	20	1		0.54	Fixed Heating	4.54	1.00		
20	REC - RM 101	A	20	1		0.54	Fixed Cooling	0.00	1.00		
22	REC - RM 101	B	20	1		0.36	Non-Diversity Loads	17.63	1.00		
24	REC - EXTERIOR	C	20	1		0.72	Other	0.00	1.00		
26	REC - EXTERIOR	A	20	1		0.72					
28	SPARE	B	20	1							
30	SPARE	C	20	1							
32	SPARE	A	20	1							
34	SPARE	B	20	1							
36	SPARE	C	20	1							
38	SPARE	A	20	1			PHASE A:	25.32	244.15	24.88 207.14	
40	SPARE	B	20	1			PHASE B:	25.66	213.68	22.78 189.69	
42	SPARE	C	20	1			PHASE C:	18.03	150.17	16.21 134.89	
							TOTAL:	73.01	302.67	63.87 177.21	
Notes:											
FLA - FULL LOAD AMPS											
MCA - MINIMUM CIRCUIT AMPS											
VFD - VARIABLE FREQUENCY DRIVE											
HP - HORSE POWER											
F, NEMA 5-15R RECEPTACLE											
G, NEMA 5-20R RECEPTACLE											
H, NEMA 6-30R RECEPTACLE											
I, NEMA 5-50R RECEPTACLE											
J, DIRECT CONNECTION											
Panel Loading: ACCEPTABLE											

PROJECT: NORTH BANK PLAYGROUND							PANEL: A			
Location:							Date: 6/28/2019			
Cat	Description	Phase	Amp	Poles	Notes	Oil Totals	Specifications			
1	GUH-4,5	A	20	1		0.84	Voltage (L-L):		208	
3	EH-1	B	20	1		0.50	Phase/Wire:		3PH / 4W	
5	EH-2,3	C	20	1		1.00	Bus Current Rating (Amps):		200	
7	EH-4,5	A	20	1		1.00	Bus Material:		Cu/Al	
9	EWH-1	C	-	-		1.50	Short Circuit Current Rating (Amps)		22KA	
11	-	C	-	-		1.50	Main Type:		BRKR	
13	-	A	-	-		1.50	Main Rating:		200	
15	RP-1	B	20	1		0.12	Neutral Type:		FULL	
17	EF-1,2,3,4,5	C	20	1		0.10	Mounting/End:		SURFACE	NEMA1
19	EF-6	A	25	1		1.92	2017 NEC Sections Used in Demand Calculations			
21	EF-7	B	20	1		1.88	Factor #	1	2017 NEC Reference	Notes
23	EF-9	C	20	1		0.02	1	TBL 220.44	Receptacles ND	1st 10k @100%, Remainder @50%
25	RM 103 - OVERHEAD DOOR	A	20	1		1.20	2	TBL 220.42	Appliances	1st 20k@50%, 20-100k @40%, >>100k @30%
27	REC - SOUND RACK	C	20	1		0.50			General Lighting	
31	SPARE	A	20	1						
33	SPARE	B	20	1			3	430.24	Motors	Largest @125% Remainder @100%
35	SPARE	C	20	1						
37	SPARE	A	20	1			4	210.19(A)1	Cont Loads	125%
39	SPARE	B	20	1			5	Non-Divert Loads		100%
41	SPARE	C	20	1			6	220.51 Heating		100%
Feeder Load Breakdown										
2	REC - RM 102	A	20	1		0.72	Non-Dwelling Receptacles	5.40	0.50	
4	REC - RM 102	A	20	1		0.54	Dwelling General Illumination	0.00	0.00	
6	REC - RM 102	C	20	1		0.54	Non-Continuous Lighting	0.00	1.00	
8	REC - RM 102 & 108	A	20	1		0.54	Continuous Lighting	0.00	1.25	
10	REC - RM 102	B	20	1		0.54	Exterior Lighting	0.00	1.25	
12	REC - RM 103	C	20	1		0.54	Kitchen Appliances	0.00	1.00	
14	REC - RM 103	A	20	1		0.36	Motors	6.22	1.00	
16	REC - EXTERIOR	B	20	1		0.54	Largest Motor (per phase)	1.92	0.25	
18	REC - MEZZANINE	C	20	1		0.54	Fixed Heating	3.34	1.00	
20	REC - MEZZANINE	A	20	1		0.54	Fixed Cooling	0.00	1.00	
22	REC - DATA FRACK	B	20	1		1.00	Non-Diversity Loads	6.50	1.00	
24	SECURITY ACCESS PANEL	C	20	1		0.50	Other	0.00	1.00	
26	LTG - RM 102, RESTROOMS	A	20	1						
28	LTG - RM 103	B	20	1						
30	SPARE	C	20	1						
32	SPARE	A	20	1						
34	SPARE	B	20	1						
36	SPARE	C	20	1						
38	SPARE	A	20	1						
40	SPARE	B	20	1						
42	SPARE	C	20	1						
TOTAL:							21.46	59.96	20.25	66.68
Notes:										
Panel Loading: ACCEPTABLE										

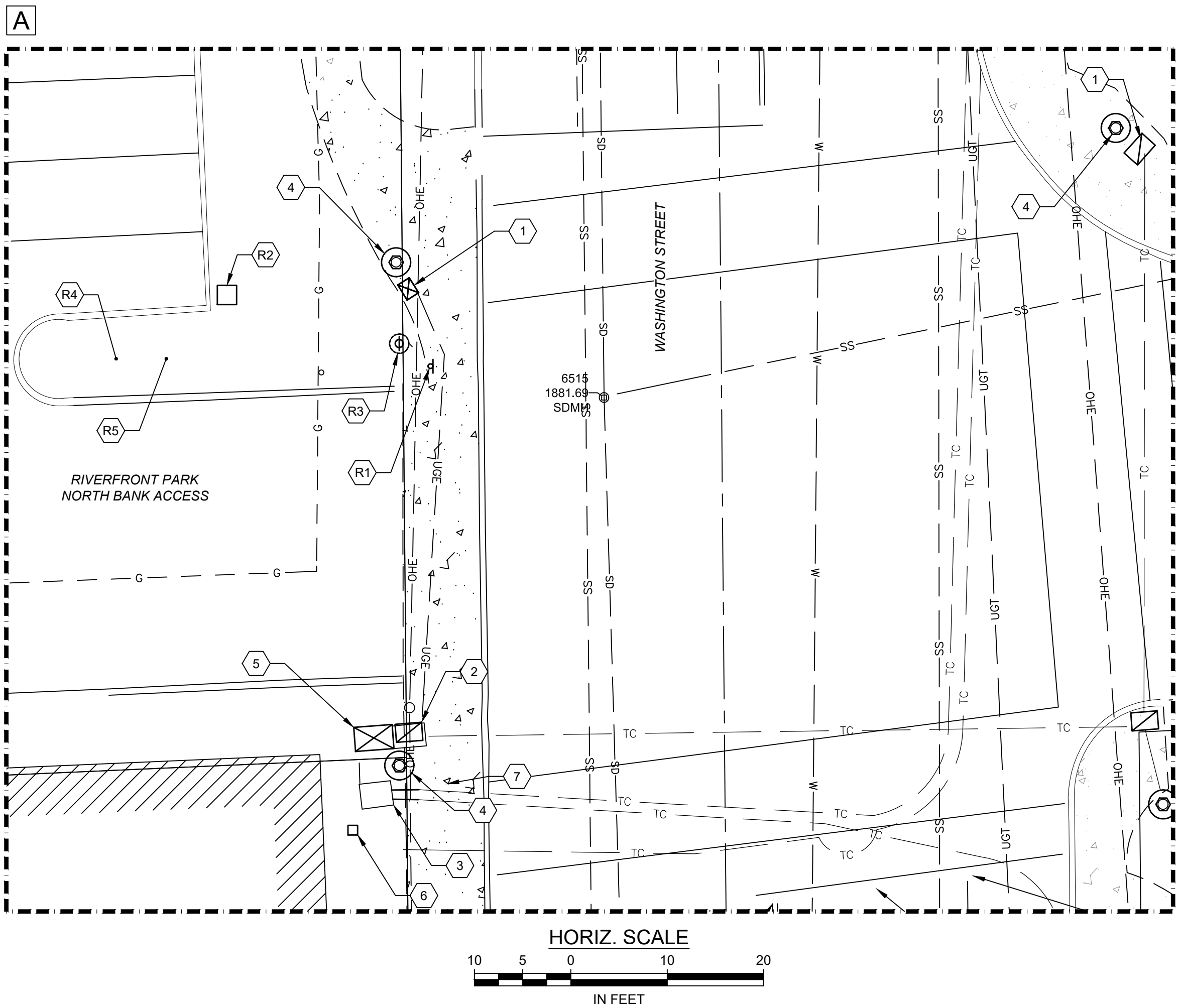


STRIPING REMOVAL NOTES

- A REMOVE 4" WHITE SKIP LANE LINE
- B REMOVE 4" & 4" DOUBLE YELLOW CENTER LINES
- C REMOVE 8" WHITE WIDE LINE (GORE LINE)
- D REMOVE 24" WHITE STOP BAR LINE
- E REMOVE 8" WHITE DOTTED WIDE LINE
- F REMOVE 8" WHITE TRANSVERSE CROSSWALK LINES
- G REMOVE WHITE TURN SYMBOL

MISC. REMOVAL NOTES

- R1 REMOVE "RIGHT TURN MUST TURN RIGHT SIGN" INCLUDING ALL MOUNTING AND FOUNDATION
- R2 DISASSEMBLE EXISTING LIGHTED SIGN AND FURNISH TO PROPERTY OWNER
- R3 REMOVE PRIVATE LAMP POLE AND FIXTURE AND FURNISH TO OWNER. REMOVE ALL MOUNTING AND FOUNDATION
- R4 REMOVE 8'x6' SHRUB
- R5 REMOVE FLAT SHRUB
- R6 REMOVE "NO PARKING" AND SALVAGE STA ROUTE SIGNS. REMOVE POLE AND FOUNDATION
- R7 REMOVE "NO PARKING" AND CLEARANCE HEIGHT SIGNS. REMOVE POLE AND FOUNDATION



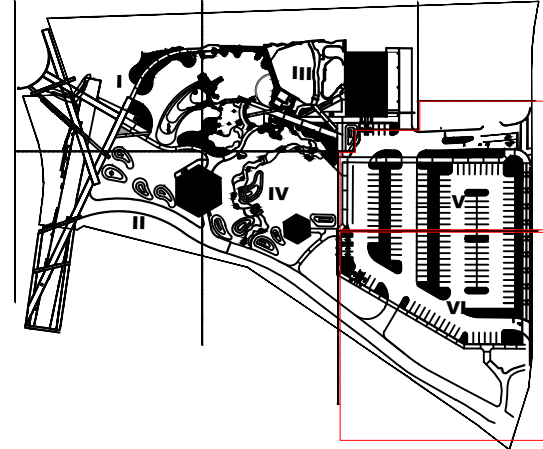
SIGNAL DEMOLITION NOTES

- 1 REMOVE EXISTING TYPE 1 JUNCTION BOX
- 2 REMOVE EXISTING TYPE 2 JUNCTION BOX
- 3 REMOVE EXISTING TYPE 3 JUNCTION BOX
- 4 REMOVE EXISTING TRAFFIC SIGNAL POLE AND FOUNDATION
- 5 REMOVE EXISTING SIGNAL CONTROLLER CABINET AND FOUNDATION
- 6 REMOVE EXISTING TELEPHONE PEDESTAL, TYPE UPC8D3
- 7 REMOVE POLE MOUNTED AC SERVICE

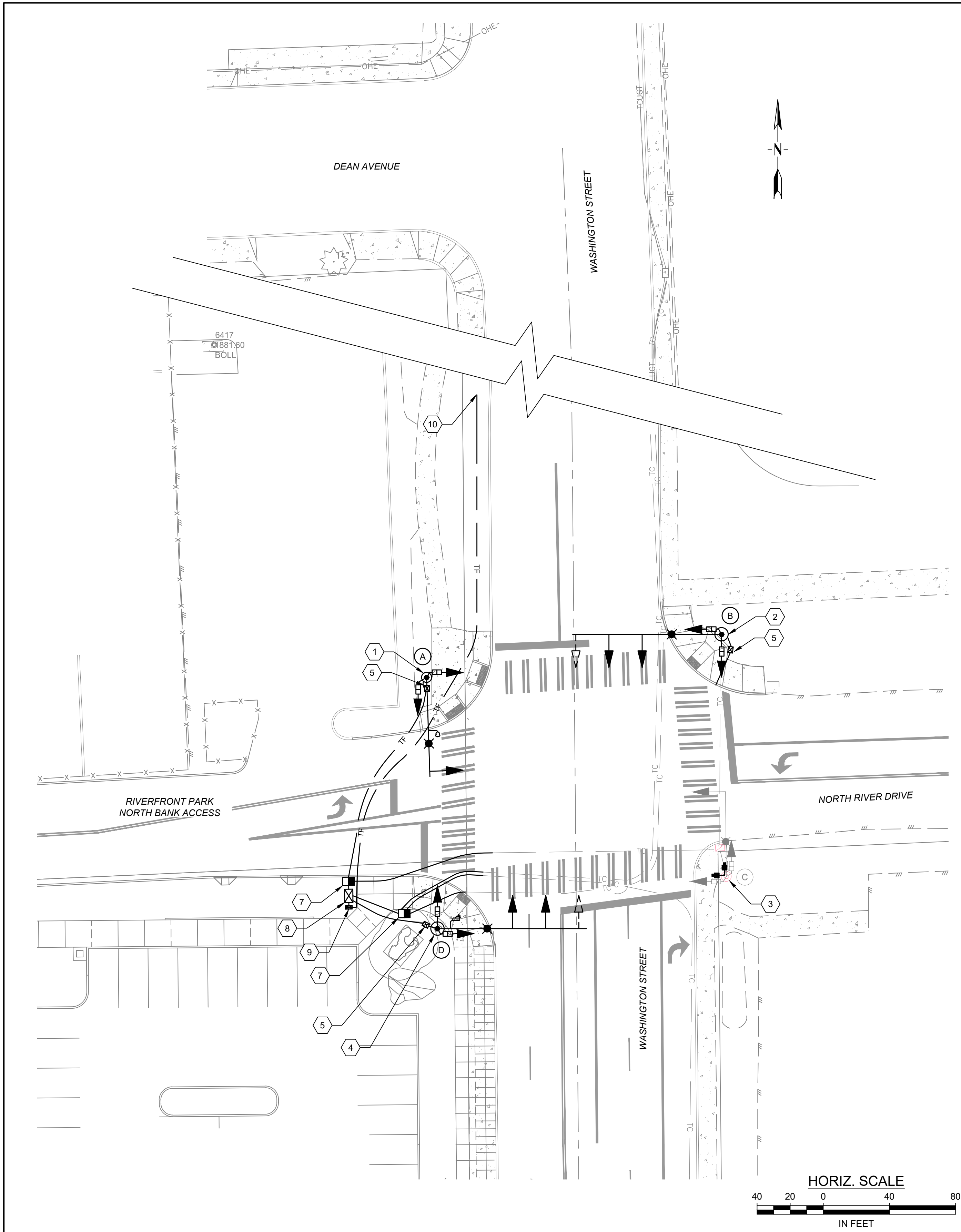
GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE A PORTABLE TEMPORARY SIGNAL TO MAINTAIN SIGNAL CONTROL AT THE INTERSECTION DURING CONSTRUCTION.
2. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED AND RETURNED TO THE CITY OF SPOKANE. DELIVER SALVAGED MATERIAL TO CITY OF SPOKANE SIGNAL AND LIGHTING SECTION LOCATED AT 901 N. NELSON STREET. COORDINATE DELIVERY WITH BYRON VASECKA, SIGNAL AND LIGHTING FOREMAN, AT (509) 232-8801 WITH A MINIMUM OF THREE 3 CITY BUSINESS DAYS LEAD TIME.
3. EXISTING LOOPS ON EAST AND WEST LEGS SHALL BE ABANDONED IN PLACE OR REMOVED AS PART OF OTHER WORK.
4. ANY CONDUITS ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED.
5. ALL REMOVED SIGNAL BASES AND CONTROLLER FOUNDATIONS SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD SPECIFICATION 2-09.3(1)E.
6. SEE GRADING PLAN FOR SURVEY CONTROL.

KEY PLAN



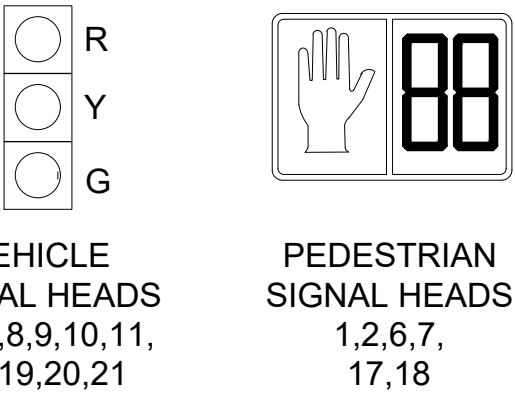
SALVAGED EQUIPMENT AND MATERIAL		
KEY NOTE	LOCATION	DESCRIPTION
4	NW CORNER	TYPE III SIGNAL STANDARD WITH 18 FT. MAST-ARM, 15 FT. LUMINAIRE ARM, 1 - D(3), 1 - B(3)2 & 1 - P2 SIGNAL MOUNTS, 3 - 3 SECTION SIGNAL DISPLAYS, 2 PEDESTRIAN SIGNAL DISPLAYS, 1 - PEDESTRIAN PUSH BUTTON, 1 - HPS LUMINAIRE
7	NW CORNER	DECORATIVE LIGHT POLE AND FIXTURE (PRIVATE - COORDINATE WITH OWNER)
4	SW CORNER	TYPE III SIGNAL STANDARD WITH 25 FT. MAST-ARM, 15 FT. LUMINAIRE ARM, 1 - D(3), 1 - B(3)2 & 1 - P2 SIGNAL MOUNTS, 3 - 3 SECTION SIGNAL DISPLAYS, 2 - PEDESTRIAN SIGNAL DISPLAY, 2 - PEDESTRIAN PUSH BUTTON, 1 - HPS LUMINAIRE
5	SW CORNER	1 - SIGNAL CABINET & CONTROLLER, 1 - AC SERVICE



HEAD ASSIGNMENT

PHASE	φ1	φ2 NB	φ3	φ4 WB	φ5	φ6 SB	φ7	φ8 EB
12" VEHICLE - 3 SECTION		3,8,10,11		4,5,20		14,19,21,22		9,15,16
LED PED.		6,12		2,7		1,17		13,18

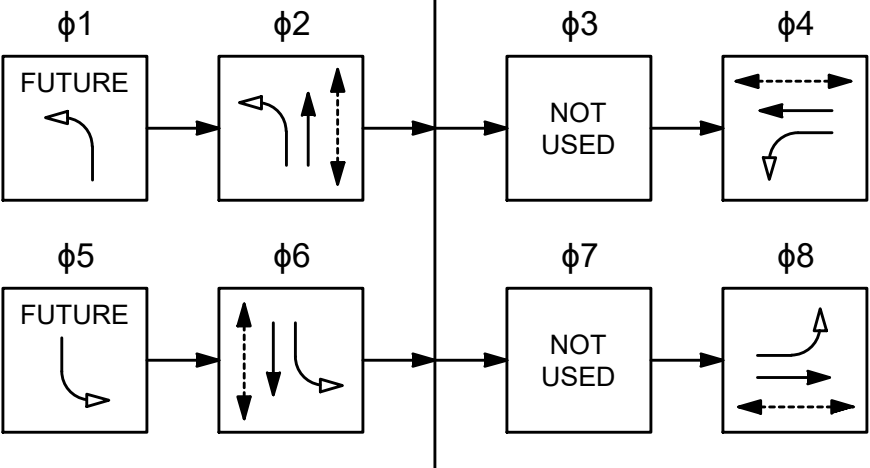
SIGNAL HEAD DISPLAY NOTES



ALL VEHICLE HEADS SHALL HAVE 12" L.E.D. MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE 5 1/2" BACKPLATES WITH 2" #3931 YELLOW TYPE 4 HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING ON ALONG PERIMETER.

ALL PEDESTRIAN HEADS SHALL BE 16X18 L.E.D. COUNTDOWN DISPLAYS

PHASING DIAGRAM



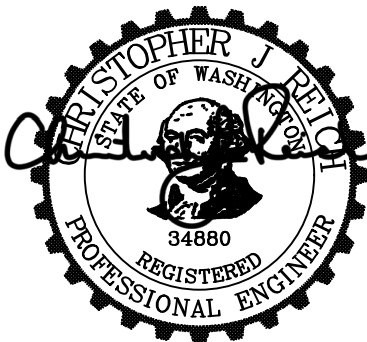
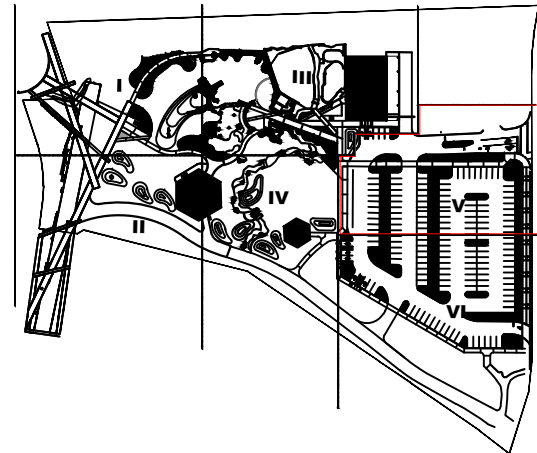
GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE CITY OF SPOKANE STANDARD PLANS AND GENERAL SPECIAL PROVISIONS (AS ADOPTED AT THE TIME OF CONTRACT AWARD) AND WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2018.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 811 BEFORE YOU DIG.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF IMPROVEMENTS SHOWN ON THESE PLANS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.
- TRAFFIC SIGNAL STANDARDS SHALL BE VALMONT.
- PEDESTRIAN PUSH BUTTONS SHALL BE POLARA IN2 SYSTEM.
- EMERGENCY VEHICLE DETECTOR SHALL BE GTT OPTICOM GPS SYSTEM.
- NON-INTRUSIVE VEHICLE DETECTION SYSTEM SHALL BE GRIDSMART®.

CONSTRUCTION NOTES

- POLE A - FURNISH AND INSTALL TYPE 3 FOUNDATION AND STANDARD, 30 FT. MAST ARM, 15 FT. LUMINAIRE ARM, 1 - TERMINAL CABINET, 1 - D(3), 1 - B(3)2, AND 1 - P2 LED COUNTDOWN PEDESTRIAN SIGNAL MOUNTS, 2 - PPB, 3 - VEHICLE SIGNAL DISPLAYS, 2 - PEDESTRIAN DISPLAY, 1 - 10,000 LUMEN LED LUMINAIRE 1 - NON-INVASIVE VEHICLE DETECTION SYSTEM PER CITY STANDARD PLAN NO. J-105B.
- POLE B - FURNISH AND INSTALL TYPE 3 FOUNDATION (4' DIA. X 7') AND CONNECT NEW CONDUIT TO EXISTING CONDUIT PER STANDARD PLAN J-105B. THIS POLE ONLY: CITY SHALL FURNISH 1 - SIGNAL STANDARD WITH 45 FT. MAST ARM, 15 FT. LUMINAIRE ARM, SIGNAL HEADS (4 VEHICLE AND 2 PEDESTRIAN). CONTRACTOR SHALL SUPPLY 1 - TERMINAL CABINET, 2 - D(3), 1 - B(3)2, 1 - P2 LED COUNTDOWN PEDESTRIAN SIGNAL MOUNTS, 2 - PPB, 1 - 10,000 LUMEN LED LUMINAIRE AND INSTALL ALL MATERIALS TO COMPLETE THE SIGNAL SYSTEM.
- POLE C - FURNISH AND INSTALL 2 - PPB, 1 - TERMINAL CABINET, 1 - P2 LED COUNTDOWN PEDESTRIAN SIGNAL MOUNTS, 2 - PEDESTRIAN DISPLAYS PER CITY STANDARD PLAN NO. J-105B.
- POLE D - INSTALL TYPE 3 FOUNDATION AND STANDARD, 45 FT. MAST ARM, 15 FT. LUMINAIRE ARM, 2 - D(3), 1 - B(3)2 & 1 - P2 LED COUNTDOWN PEDESTRIAN SIGNAL MOUNTS, 2 - PPB, 3 - VEHICLE DISPLAYS, 2 - PEDESTRIAN DISPLAYS, 1 - EMERGENCY VEHICLE DETECTOR, 1 - 10,000 LUMEN LED LUMINAIRE PER CITY STANDARD PLAN NO. J-105B.
- INSTALL TYPE 1 JUNCTION BOX WITH SKID RESISTANT LID PER CITY STANDARD PLAN NO. J-112.
- INSTALL TYPE 2 JUNCTION BOX WITH SKID RESISTANT LID PER CITY STANDARD PLAN NO. J-112.
- INSTALL TYPE 3 JUNCTION BOX WITH SKID RESISTANT LID PER CITY STANDARD PLAN NO. J-112.
- INSTALL TYPE 'P' CONCRETE SIGNAL CONTROLLER CABINET FOUNDATION PER CITY STANDARD PLAN NO. J-106.
- INSTALL DOWNTOWN UNDERGROUND ELECTRICAL SERVICE CABINET PER CITY STANDARD PLAN NO. J-119A AND J-119B.
- SERVICE DROP LOCATION. CONTACT NICK HARMON, (509) 495-4889 WITH AVISTA UTILITIES TO COORDINATE.

KEY PLAN



6/27/2019

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: TRAFFIC

CITY PURCHASING NUMBER

DRAWING NUMBER

T2.0

FILE NAME:

**Morrison
Maierle**
engineers • surveyors • planners • scientists

LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION	SEE SHEET V1.0	HORIZONTAL	
CBM NO.	N/A	VERTICAL	
CITY DATUM	NAVD 88	SCALE	

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

6.27.19	DRAWN	MMICJR
6.27.19	DESIGNED	WOWICJR
	CHECKED	
	APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:

RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

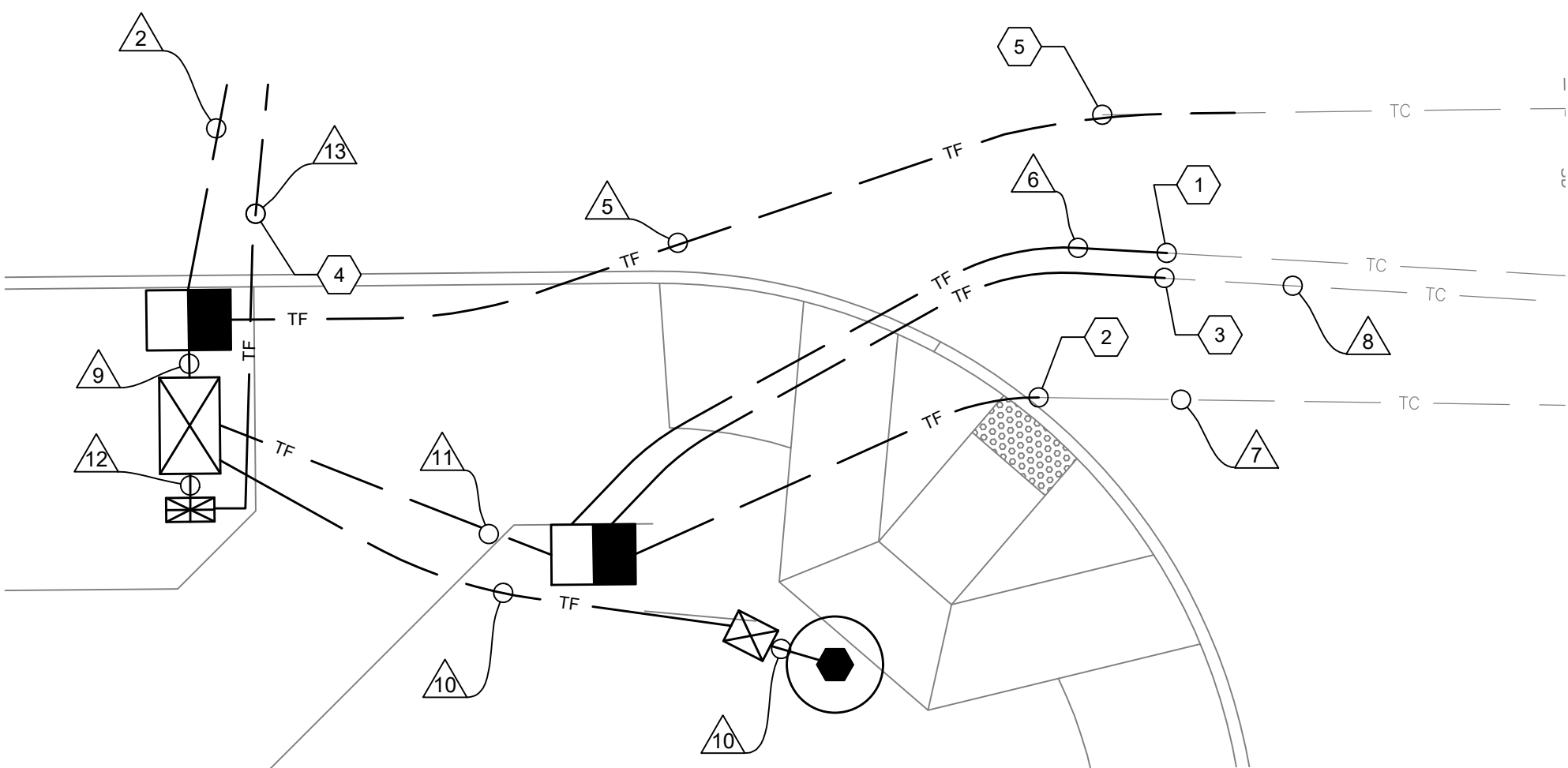
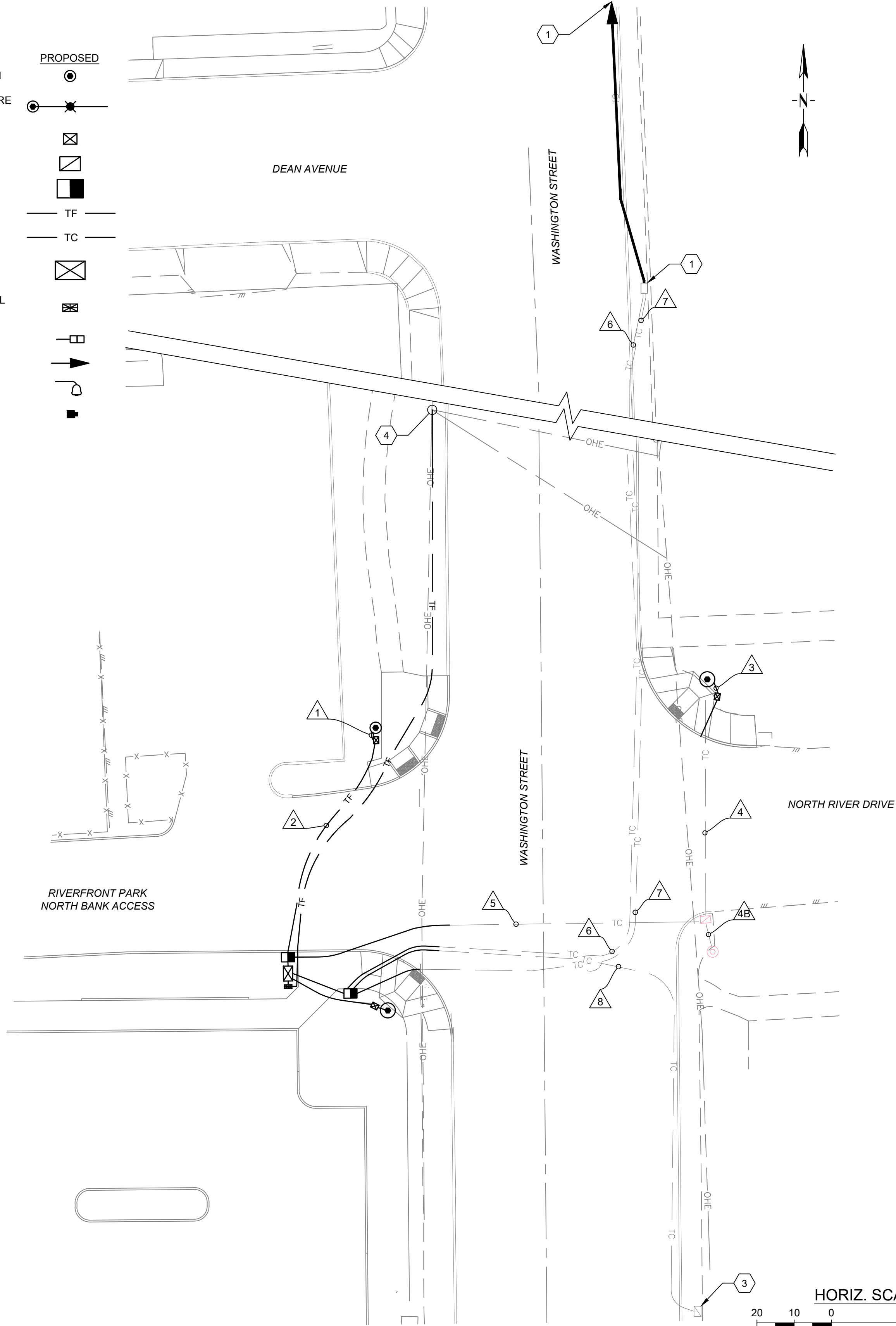
SHEET TITLE:

WASHINGTON STREET AT NORTH RIVER DRIVE
SIGNAL PLAN
7.3.2019

DATE: Jun 28, 2019 - 5:08pm by: bwhite

TRAFFIC SYMBOLS

EXISTING	PROPOSED



CONTROLLER CORNER DETAIL
SCALE: NTS

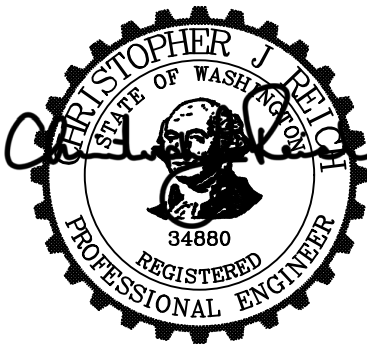
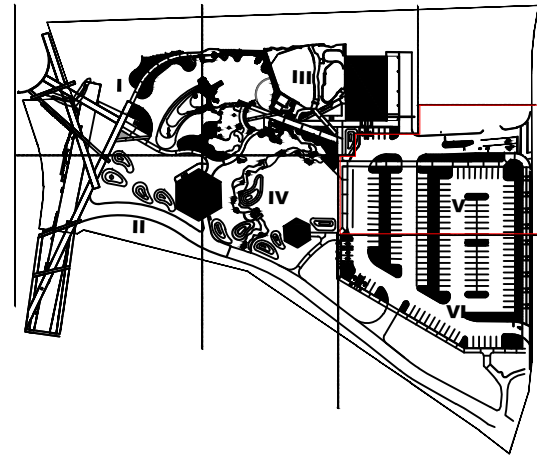
WIRING NOTES

- INSTALL 1 - 3" CONDUIT, 1 - #14/20C, 1 - #24 SH CAT5e, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
- INSTALL 1 - 3" CONDUIT, 1 - #14/20C, 1 - #24 SH CAT5e, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
INSTALL 1 - 3" CONDUIT (SPARE), 1 - #14 THHN
- INSTALL 1 - 3" CONDUIT, 1 - #14/20C, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
- EXT 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
EXT 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
- EXT 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND (SEE NOTE 5 BELOW)
EXT 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C (SEE NOTE 5 BELOW)
- EXT 1 - 3" CONDUIT (PVC), NEW 1 - #22/50 TP SH (5010), 1 - #22/6 TP SH (SEE NOTE 1 BELOW)
- EXT 1 - 4" CONDUIT (PVC), SPLICE EXTENSION TO EXT. 1 - #14 THHN (SEE NOTE 2 BELOW)
- EXT 1 - 3" CONDUIT (PVC), NEW 1 - #22/50 TP SH (SEE NOTE 3 BELOW)
- INSTALL 1 - 3" CONDUIT, 1 - #14/20C, 1 - #24 SH CAT5e, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
INSTALL 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
INSTALL 1 - 3" CONDUIT (PVC), NEW 1 - #14/20C
INSTALL 1 - 3" CONDUIT, SPARE
- INSTALL 1 - 3" CONDUIT, 1 - #14/20C, 1 - OPTICOM 1070 GPS INSTALLATION CABLE, 1 - 12/2C UF, 1 - #8 THNN EQ. GRND
- INSTALL 1 - 3" CONDUIT, 1 - #22/50 TP SH (5010), 1 - #22/6 TP SH
INSTALL 1 - 3" CONDUIT, 1 - #22/50 TP SH
- INSTALL 1 - 2" CONDUIT (POWER TO SIGNAL CABINET)
- INSTALL 1 - 3" CONDUIT TO SERVICE DROP (COORDINATE WITH AVISTA UTILITIES)

CONSTRUCTION NOTES

- TIE NEW CONDUIT TO EXISTING CONDUIT WITHIN LIMITS OF SIDEWALK AND PAVEMENT REMOVAL AS SHOWN ON SITE GRADING PLAN. THE CONTRACTOR SHALL PULL NEW COMMUNICATION CABLE THROUGH THE EXISTING JUNCTION BOX APPROXIMATELY 525 FEET NORTH OF THE INTERSECTION ALONG EAST SIDE OF WASHINGTON STREET NEAR THE INTERSECTION WITH DEAN AVENUE TO THE TOPSIDE TERMINATION WITHIN THE SIGNAL CABINET ON THE SOUTHWEST CORNER OF WASHINGTON STREET AT BOONE. (APPROXIMATELY 1,100 LF)
- TIE NEW CONDUIT TO EXISTING CONDUIT WITHIN LIMITS OF SIDEWALK AND PAVEMENT REMOVAL AS SHOWN ON SITE GRADING PLAN. THE CONTRACTOR SHALL SPLICE #14 THHN ONTO EXISTING TRACER WIRE.
- TIE NEW CONDUIT TO EXISTING CONDUIT WITHIN LIMITS OF SIDEWALK AND PAVEMENT REMOVAL AS SHOWN ON SITE GRADING PLAN. THE CONTRACTOR SHALL PULL NEW COMMUNICATION CABLE FROM NEAREST JUNCTION BOX APPROXIMATELY 150 FEET SOUTH OF THE INTERSECTION ALONG EAST SIDE OF WASHINGTON STREET. CABLE SHALL BE SPLICED IN THE EXISTING JUNCTION BOX USING AN APPROVED ENCAPSULATED SPLICE KIT.
- PROVIDE CONDUIT REQUIRED FROM SERVICE CABINET TO WOOD POLE FOR AC SERVICE DROP FROM AERIAL FEED. COORDINATE WITH AVISTA UTILITIES. CONTACT NICK HARMON AT (509) 495-4889.
- TIE NEW CONDUIT TO EXISTING CONDUIT WITHIN LIMITS OF SIDEWALK AND PAVEMENT REMOVAL AS SHOWN ON SITE GRADING PLAN. EXISTING CONDUCTORS SHALL BE REMOVED FROM EXISTING CONDUIT AND DISCARDED. NEW CONDUCTORS SHALL BE PULLED FROM THE NEW POLE MOUNTED TERMINAL CABINETS AND INTO THE CONTROLLER CABINET.

KEY PLAN



6/27/2019

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: TRAFFIC

CITY PURCHASING NUMBER

DRAWING NUMBER

FILE NAME:

REVISION NO.

DATE: Jun 28, 2019 - 5:09pm by: bwhite



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION

ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
NAVD 88	
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS
CCS - ADOPTED 2/95

6.27.19	DRAWN	MM/MJR
6.27.19	DESIGNED	WDM/JJR
	CHECKED	
	APPROVED	



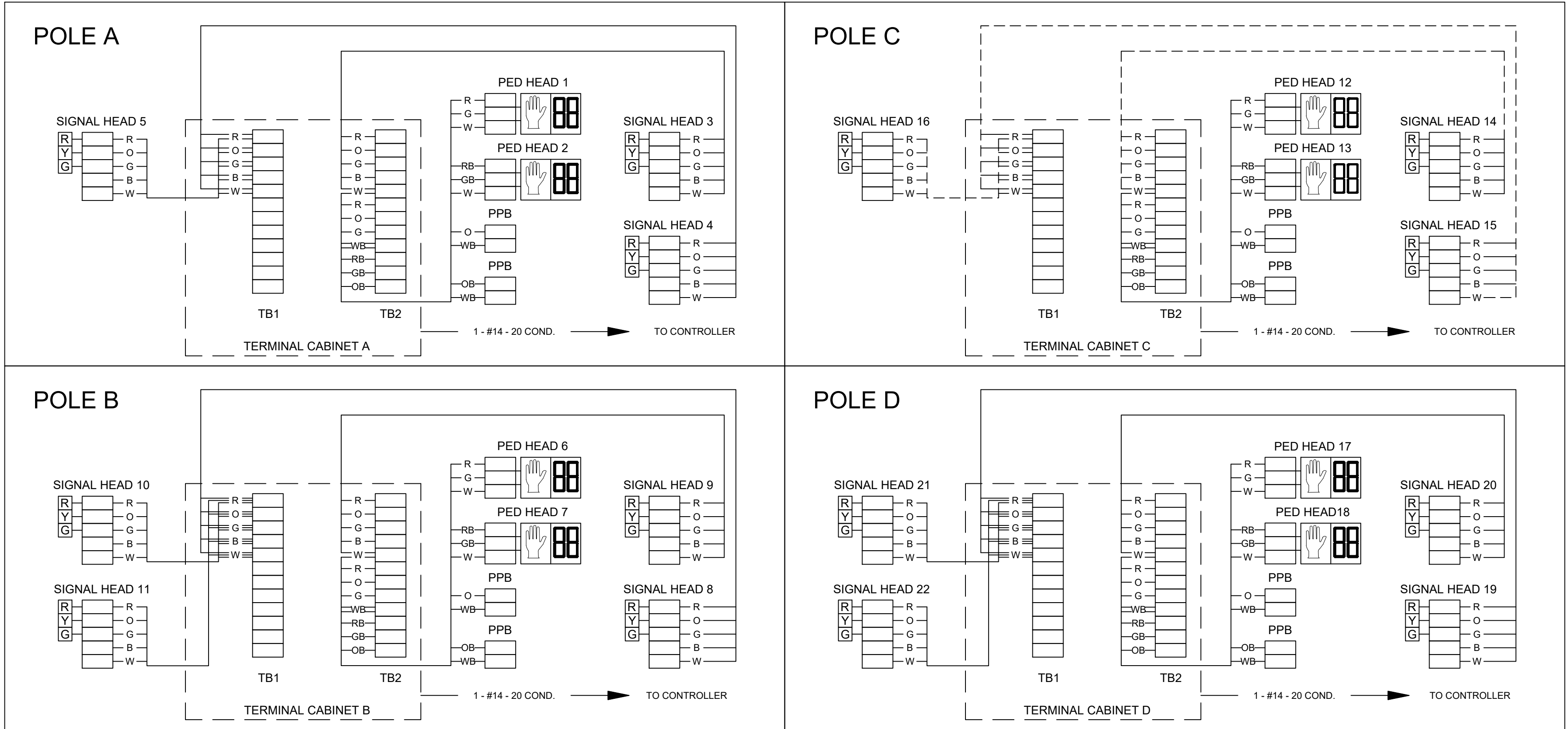
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK
NORTH BANK PLAYGROUND
BID SET

SHEET TITLE: WASHINGTON STREET AT NORTH RIVER DRIVE
SIGNAL WIRING AND CONDUIT PLAN
7.3.2019

FIELD WIRE TERMINATIONS

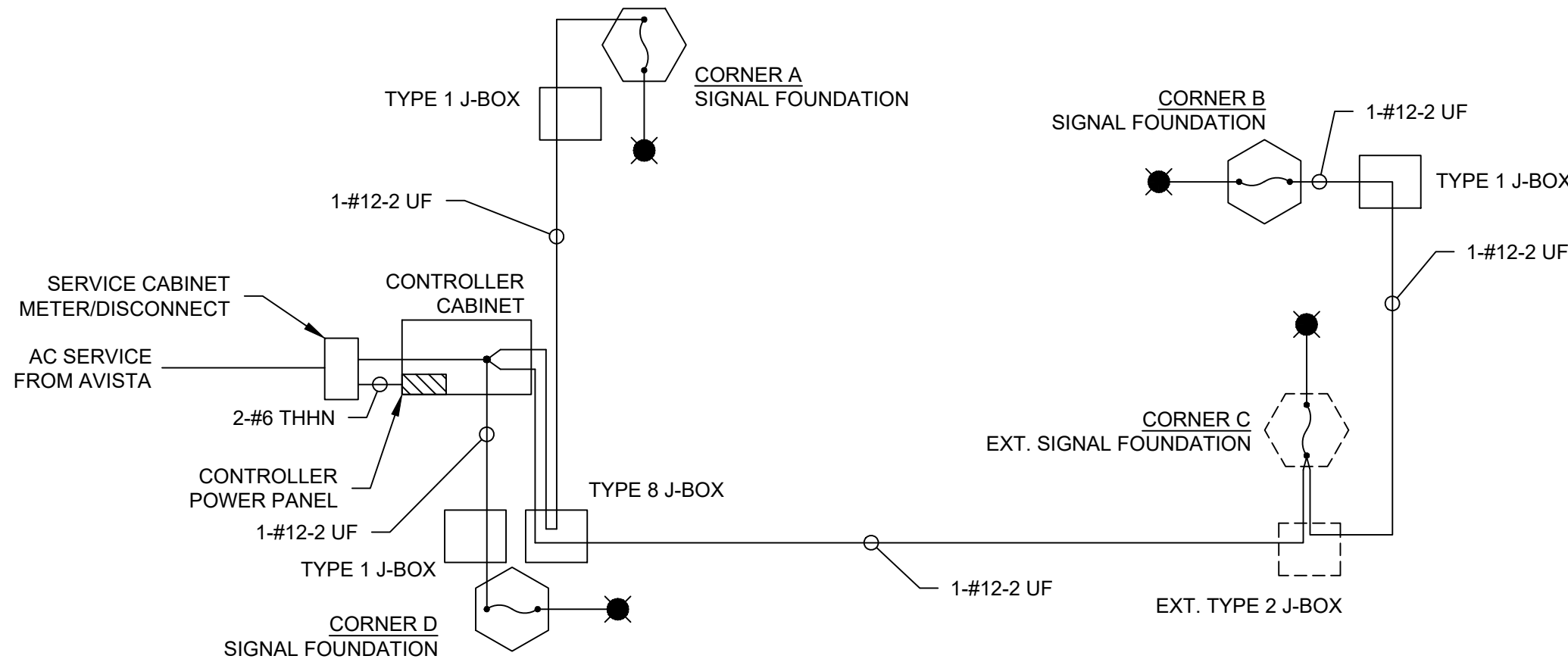


SIGNAL HEAD COLOR LEGEND
R = RED BALL
Y = YELLOW BALL
G = GREEN BALL

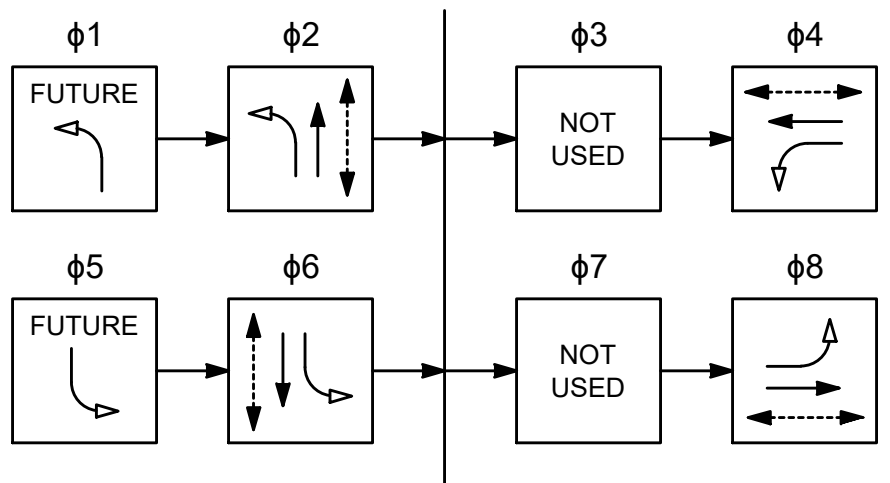
SIGNAL WIRING COLOR LEGEND
R = RED
O = ORANGE
G = GREEN
B = BLACK
W = WHITE
BL = BLUE
WB = WHITE/BLACK STRIPE
RB = RED/BLACK STRIPE
GB = GREEN/BLACK STRIPE
OB = ORANGE/BLACK STRIPE

- NOTES
1. LABEL EACH WIRE WITH APPROPRIATE HEAD NUMBER AT TERMINAL STRIP IN CAN.
 2. ATTACH TERMINAL CAN TO STANDARD WITH A PRU BRACKET FROM SKYLINE ELECTRIC MFG. OR ANY SIMILAR HAVING 4" WIDE SHALLOW "C" CHANNEL.
 3. SPARE CONDUCTORS SHALL BE SALED OFF IN THE TERMINAL CABINET.

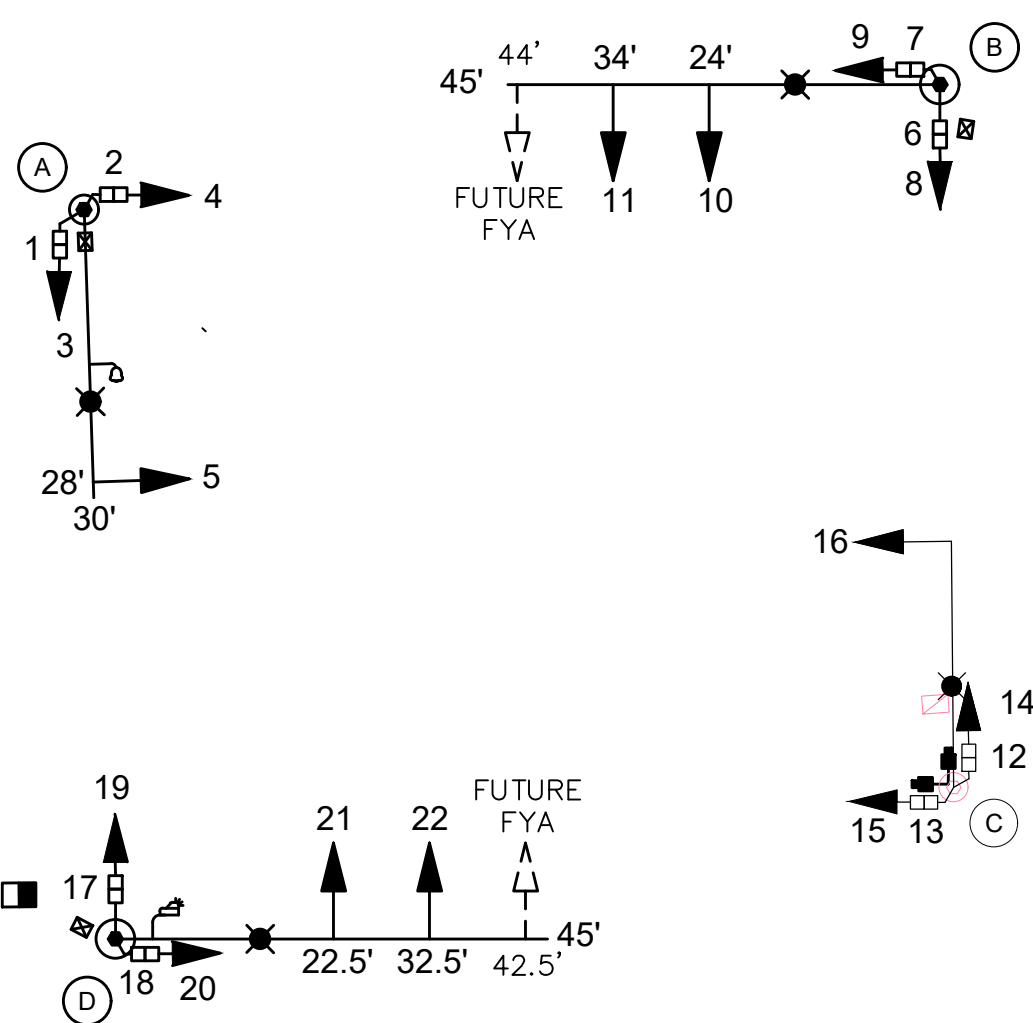
ILLUMINATION DIAGRAM



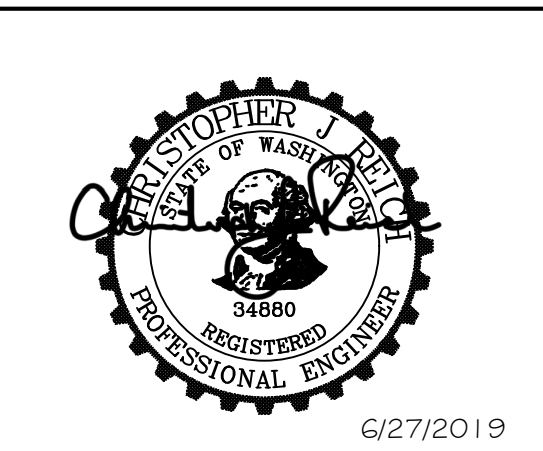
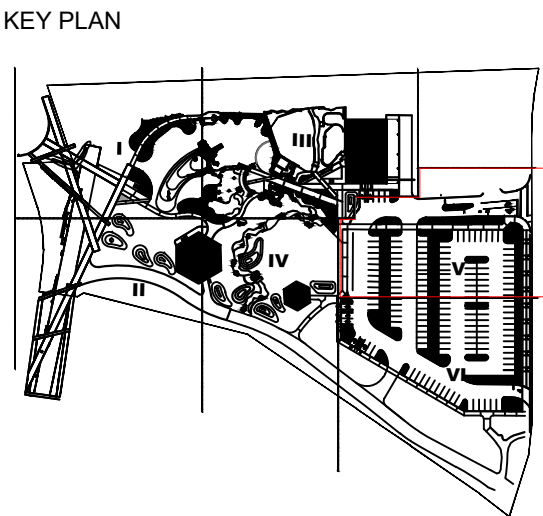
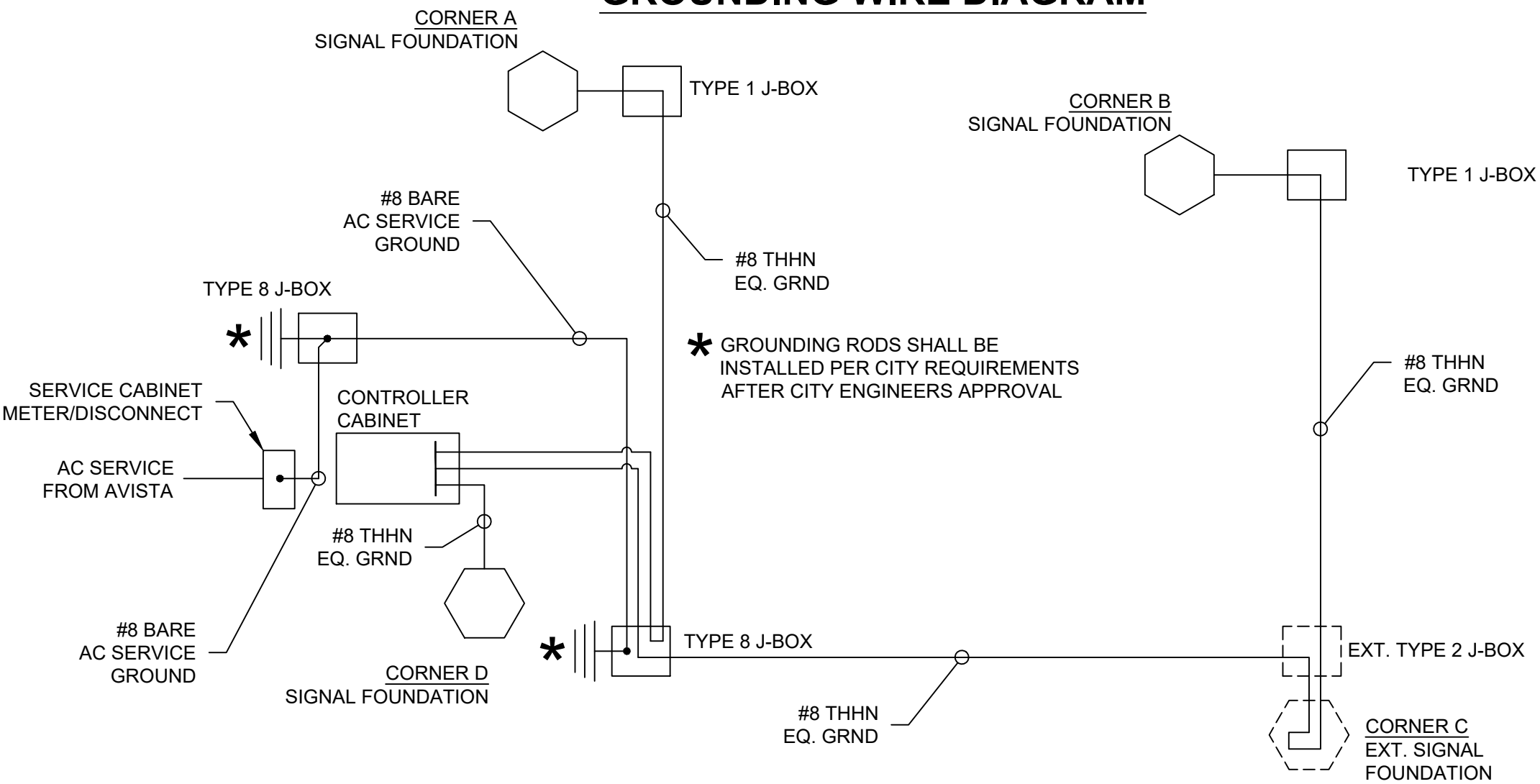
PHASING DIAGRAM



SIGNAL HEAD LOCATIONS



GROUNDING WIRE DIAGRAM



DIGITALLY SIGNED:
TYPE OF IMPROVEMENT: TRAFFIC
CITY PURCHASING NUMBER: DRAWING NUMBER:
T4.0
DATE: Jun 28, 2019 - 5:09pm by: bwhite
FILE NAME:

BY	REVISIONS	DATE



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
CITY DATUM	SCALE

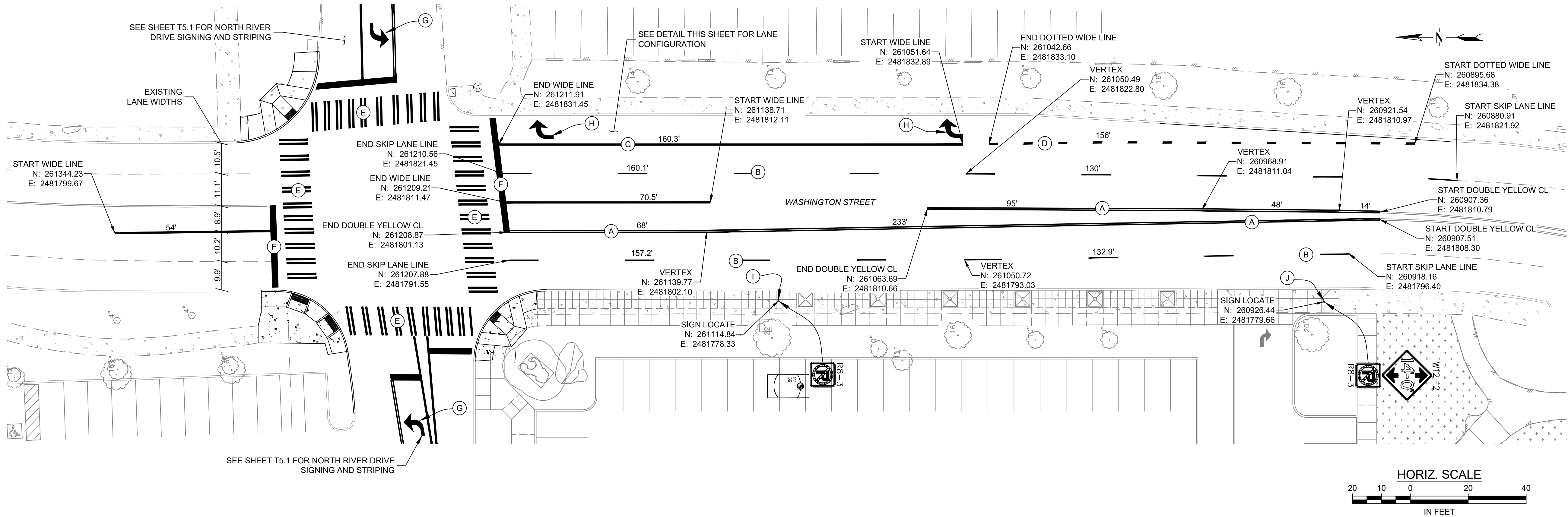
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0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
6.27.10	DRAWN: MIM/CJR
8.27.10	DESIGNED: WDW/CJR
CHECKED:	APPROVED:



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE: RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE: WASHINGTON STREET AT NORTH RIVER DRIVE FIELD WIRE TERMINATIONS
7.3.2019
DATE: Jun 28, 2019 - 5:09pm by: bwhite

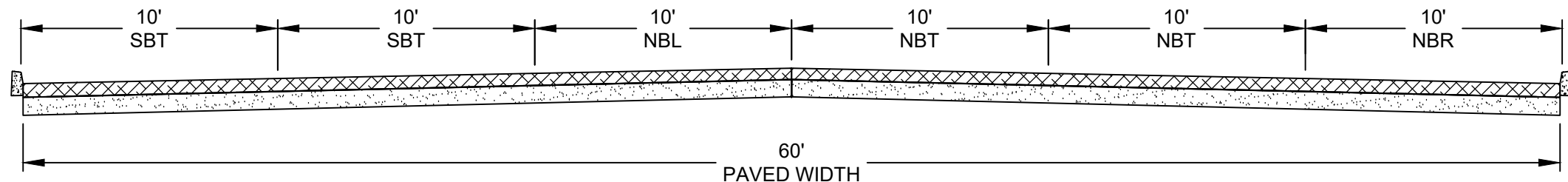


SIGNING & STRIPING NOTES:

- (A) HEAT APPLIED 4" & 4" DOUBLE YELLOW CENTER LINE (4" SEPARATION), SEE STD. PLAN G-50A
(B) HEAT APPLIED 4" WHITE SKIP LANE LINE, SEE STD. PLAN G-50A
(C) HEAT APPLIED 8" WHITE WIDE LINE (GORE LINE), SEE STD. PLAN G-50A
(D) HEAT APPLIED 8" WHITE DOTTED WIDE LINE, SEE STD. PLAN G-50A
(E) HEAT APPLIED 8" WHITE LONGITUDINAL CROSSWALK, SEE STD. PLAN G-51
(F) HEAT APPLIED 24' WHITE STOP BAR LINE, SEE STD. PLAN G-51
(G) HEAT APPLIED WHITE LEFT-TURN SYMBOL, SEE STD. G-52A AND G-52B
(H) HEAT APPLIED WHITE RIGHT-TURN SYMBOL, SEE STD. G-52A AND G-52B
(I) INSTALL NEW "NO PARKING" AND SALVAGED STA ROUTE SIGNS. INSTALL ON NEW POLE AND FOUNDATION PER CITY STANDARD
(J) INSTALL NEW "NO PARKING" AND CLEARANCE HEIGHT SIGNS. INSTALL ON NEW POLE AND FOUNDATION PER CITY STANDARD

GENERAL NOTES

1. ARROW SYMBOLS LOCATED IN CENTER OF TRAVEL LANE
2. SEE GRADING PLAN FOR SURVEY CONTROL
3. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE CITY OF SPOKANE STANDARD PLANS AND GENERAL SPECIAL PROVISIONS (AS ADOPTED AT THE TIME OF CONTRACT AWARD) AND WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2018.
4. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 811 BEFORE YOU DIG.
5. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF IMPROVEMENTS SHOWN ON THESE PLANS.
6. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.

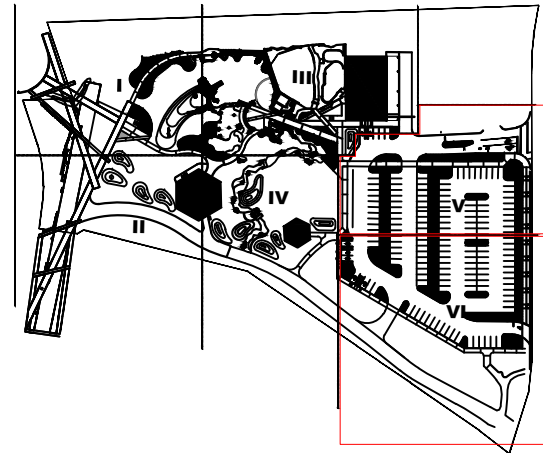


NOTE:
1. WIDTHS REPRESENT PAVED ROADWAY SECTION AT NORTHBOUND RIGHT LANE STOP BAR.

SOUTH APPROACH LANE CONFIGURATION (WASHINGTON STREET)

SCALE: NTS

KEY PLAN



BY	REVISIONS	DATE



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
NAVIG 88	
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
6.27.19	DRAWN MIMCJR
6.27.19	DESIGNED WDWICJR
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF PARKS AND RECREATION

808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6200

PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	WASHINGTON STREET AT NORTH RIVER DRIVE SIGNING & STRIPING PLAN: WASHINGTON STREET 7.3.2019
DATE:	Jun 28, 2019 - 5:19pm by: bwhite

DIGITALLY SIGNED:

TYPE OF IMPROVEMENT: TRAFFIC

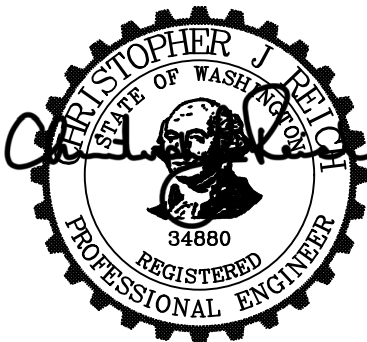
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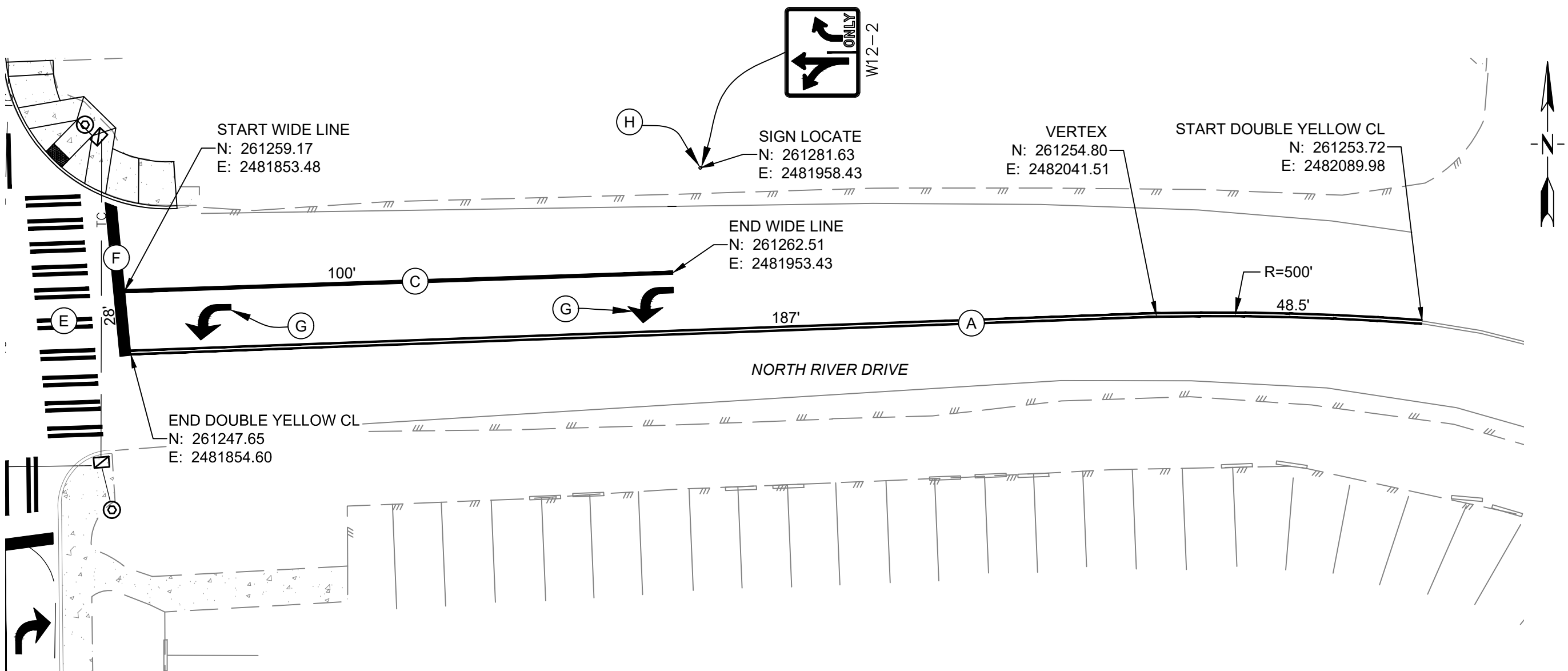
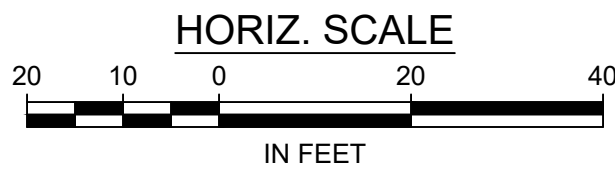
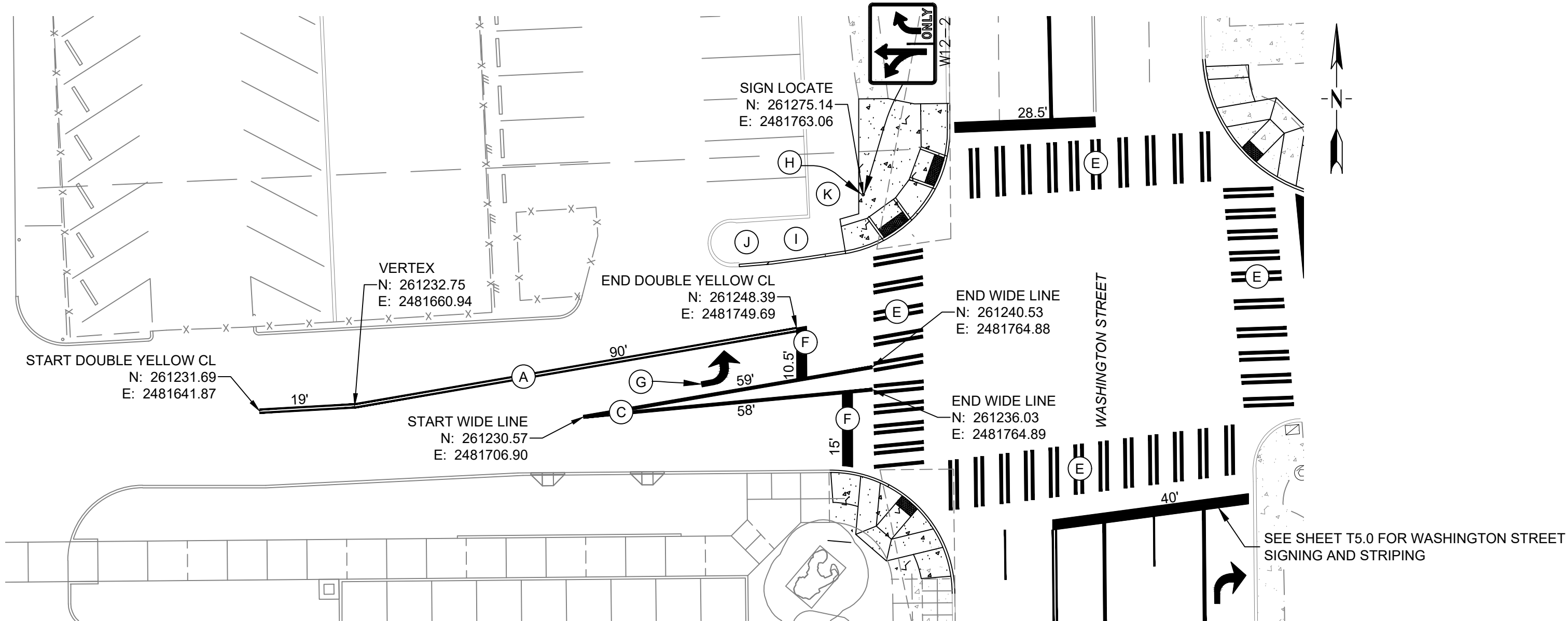
DRAWING NUMBER

FILE NAME:

REVISION NO.

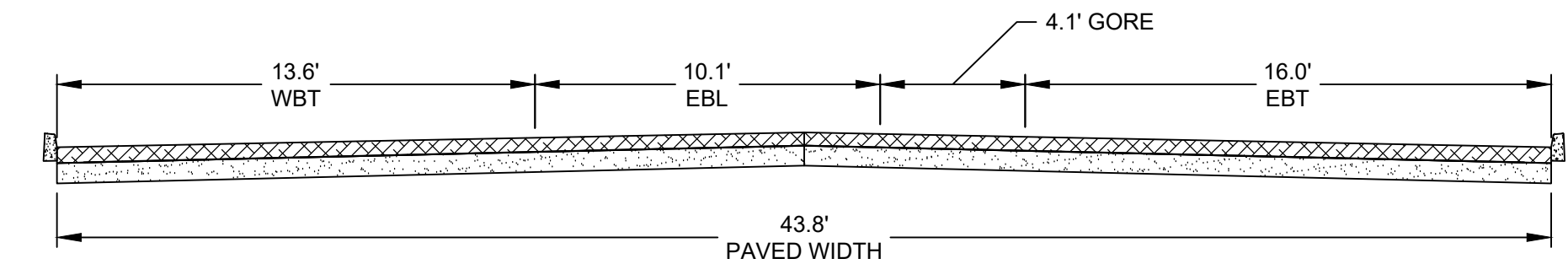
6/27/2019





STRIPING LEGEND

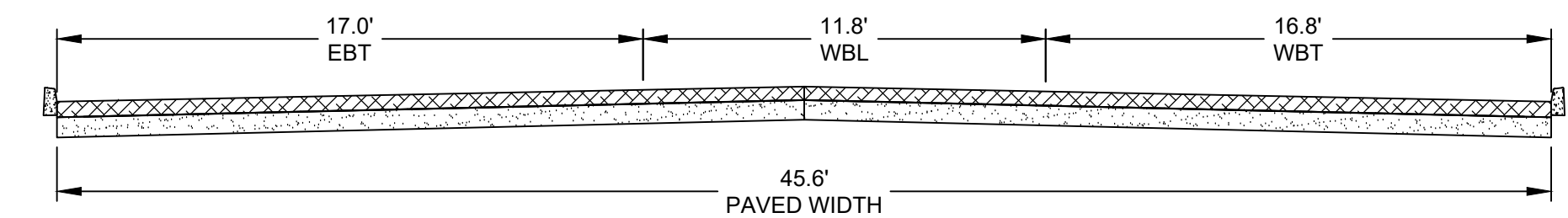
- (A) HEAT APPLIED 4" & 4" DOUBLE YELLOW CENTER LINE (4" SEPARATION), SEE STD. PLAN G-50A
- (B) HEAT APPLIED 4" WHITE SKIP LANE LINE, SEE STD. PLAN G-50A
- (C) HEAT APPLIED 8" WHITE WIDE LINE (GORE LINE), SEE STD. PLAN G-50A
- (D) HEAT APPLIED 8" WHITE DOTTED WIDE LINE, SEE STD. PLAN G-50A
- (E) HEAT APPLIED 8" WHITE LONGITUDINAL CROSSWALK, SEE STD. PLAN G-51
- (F) HEAT APPLIED 24" WHITE STOP BAR LINE, SEE STD. PLAN G-51
- (G) HEAT APPLIED WHITE LEFT-TURN SYMBOL, SEE STD. G-52A AND G-52B
- (H) INSTALL NEW LEFT TURN AND THRU/RIGHT SIGN. INSTALL ON NEW POLE AND FOUNDATION PER CITY STANDARD.
- (I) REPLACE 8'X6' SHRUB. COORDINATE WITH CITY.
- (J) REPLACE FLAT SHRUB AND 3' SHRUB. COORDINATE WITH CITY.
- (K) INSTALL PRESERVED PRIVATE BUSINESS SIGN. COORDINATE WITH PROPERTY OWNER.



NOTE:
1. WIDTHS REPRESENT PAVED ROADWAY SECTION AT EASTBOUND RIGHT LANE STOP BAR.

WEST APPROACH LANE CONFIGURATION (NORTH RIVER DRIVE)

SCALE: NTS

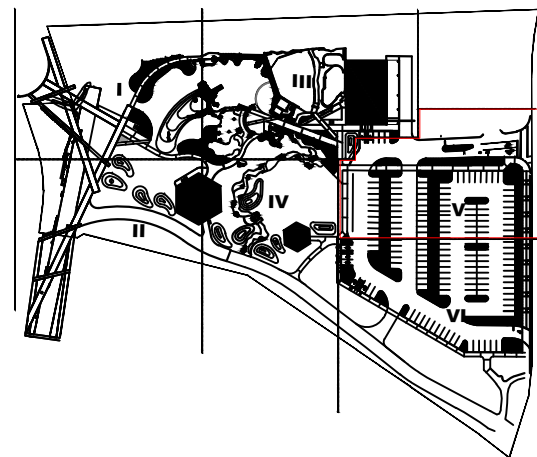


NOTE:
1. WIDTHS REPRESENT PAVED ROADWAY SECTION AT WESTBOUND STOP BAR.

EAST APPROACH LANE CONFIGURATION (NORTH RIVER DRIVE)

SCALE: NTS

KEY PLAN



GENERAL NOTES

- ARROW SYMBOLS LOCATED IN CENTER OF TRAVEL LANE
- SEE GRADING PLAN FOR SURVEY CONTROL
- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE CITY OF SPOKANE STANDARD PLANS AND GENERAL SPECIAL PROVISIONS (AS ADOPTED AT THE TIME OF CONTRACT AWARD) AND WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2018.
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- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.

BY	REVISIONS	DATE



LOCATION SEE SHEET V1.0 FOR TEMPORARY BENCH MARK INFORMATION	
ELEVATION SEE SHEET V1.0	HORIZONTAL
CBM NO. N/A	VERTICAL
CITY DATUM	SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CURRENT DESIGN STANDARDS CCS - ADOPTED 2/95	
6.27.19	DRAWN MIM/CJR
8.27.19	DESIGNED WDW/CJR
CHECKED	
APPROVED	



CITY OF SPOKANE, WASHINGTON
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PROJECT TITLE:	RIVERFRONT PARK NORTH BANK PLAYGROUND BID SET
SHEET TITLE:	WASHINGTON STREET AT NORTH RIVER DRIVE SIGNING & STRIPING PLAN: NORTH RIVER DRIVE 7.3.2019
DATE:	Jun 28, 2019 - 5:18pm by: bwhite

DIGITALLY SIGNED:	
TYPE OF IMPROVEMENT: TRAFFIC	
CITY PURCHASING NUMBER	DRAWING NUMBER
	T5.1
FILE NAME:	REVISION NO.